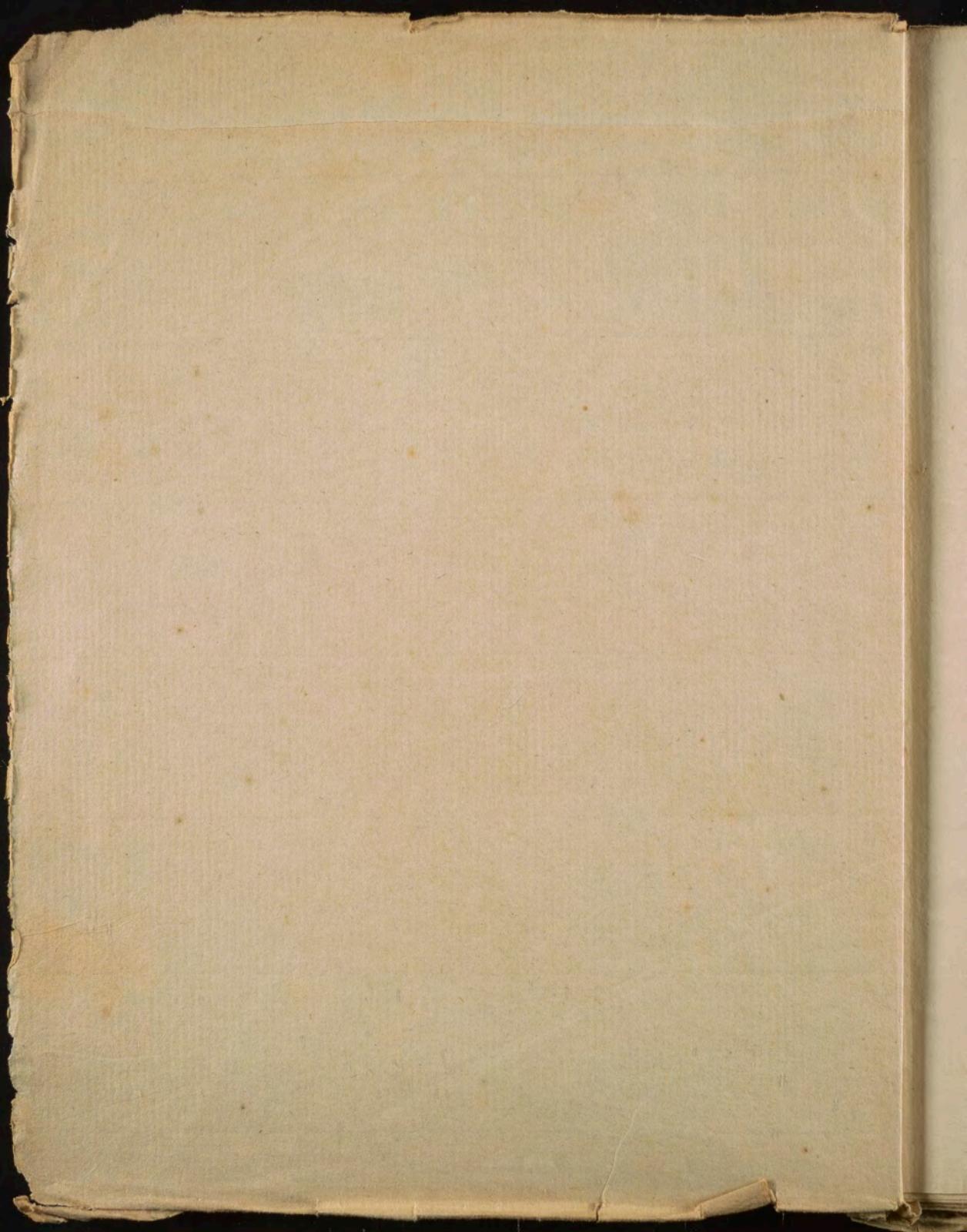
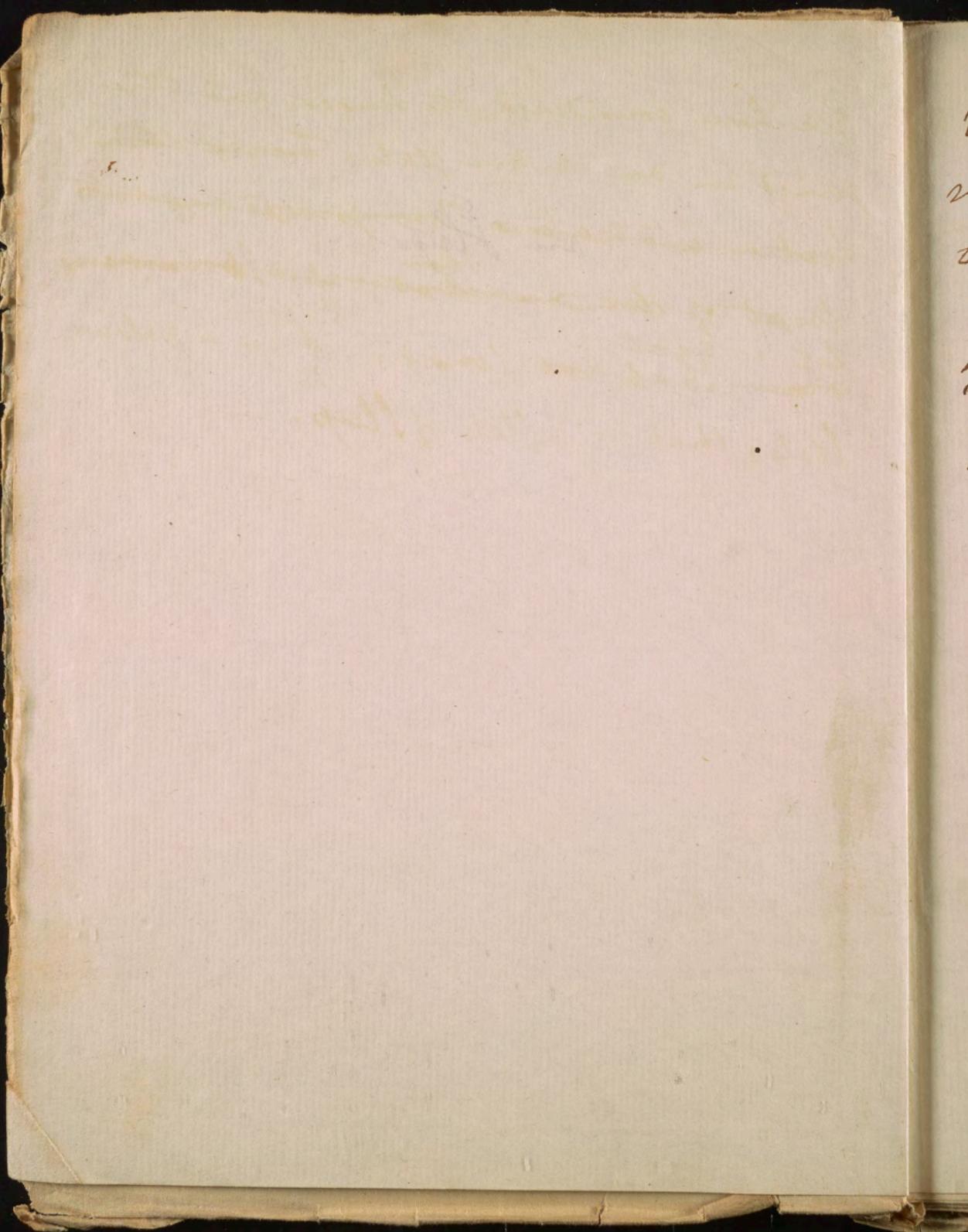


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*an Steife*



We have considered the Senses, and the  
mind in an active state. Now this  
~~to take and return the power again to~~  
~~them~~  
~~out of them~~  
let us next ~~now that we consider it~~ <sup>them</sup> in a passive  
State, that is a State of Sleep. —

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## of Sleep

The impressions which induce  
and thought, whether pleasant, or pain-  
ful, by their action upon the system,  
wear it down <sup>its excitement,</sup> & expend its  
excitability <sup>into</sup>, in such a manner  
as to render sleep necessary to renew them.

Sleep affords the same repose to sensation  
and thought <sup>or to the nerves and brain, that</sup> rest does to motion,  
<sup>as to the muscles.</sup>  
It is as <sup>as</sup> <sup>un</sup>usually alternated with

waking, as light is with darkness.

In describing it I shall

& consider its proximate cause.

II I shall inquire into its remote causes.

III I shall take notice of the state of the system  
and of several phenomena which occur  
in sleep, and

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IV. I shall endeavour to explain the  
cause of Dreams, and of several anomalous  
facts connected with them.

I The proximate cause of sleep depends  
upon a certain fixed or determined  
grade of depression in the brain. It has  
been called by Dr Brown "the sleeping point."  
It has likewise been called "a healthy  
apoplexy". It is induced by an accumula-  
tion of blood in the venous sinusses,  
and spinal marrow. This has been  
demonstrated by the dissection of persons  
who have died in their sleep, also by the  
effect of pressure upon the brain demon-  
strated by the Cranium <sup>in</sup> of the Parisian  
beggar mentioned by Dr Boerhaave. A  
gentle degree of pressure induces sleep,

V of the proximate cause of fleys it  
will naturally occur to you that it is  
to all intents and purposes, a disease. Other  
proofs of its being so will be mentioned  
presently.

VI and according to the length of  
time in which they act upon  
the body.

3

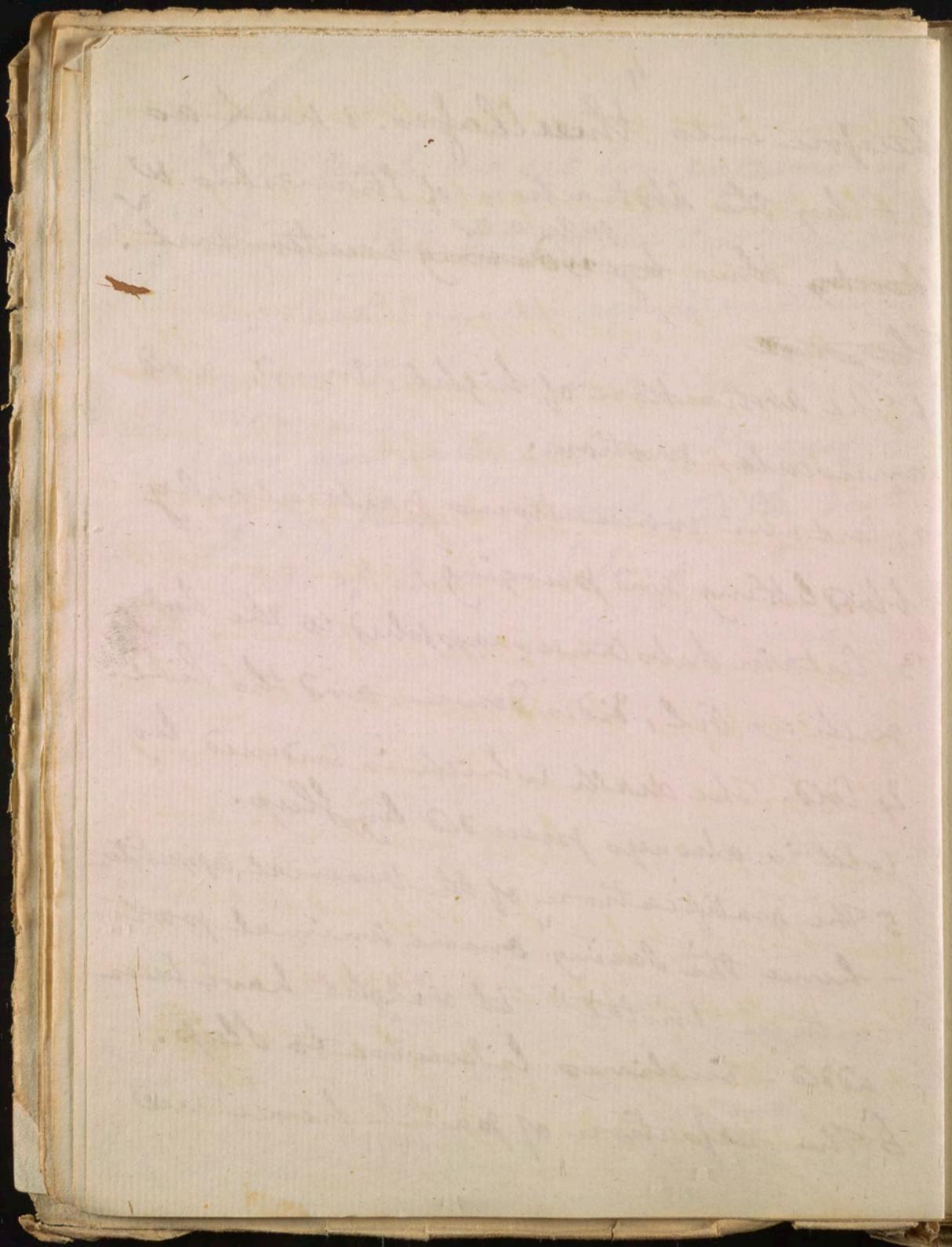
but a greater degree of stupor induced  
apoplexy from both of which he  
recovred by removing the hand from  
his brain. In that grade of depression  
of the brain in which sleep takes place,  
~~the nerves~~  
~~it ceases to exert its power,~~  
the instruments ~~and~~ of the brain of  
inspiration, and the brain of thought.  
I shall now divide depression, or the  
sleeping point at  $20^{\circ}$  in the brain  
and nerves, and wakefulness at  $10^{\circ}$   
above, or below it. From this history V  
II The remote causes of sleep which  
comes next under our consideration  
act in a relative manner, according  
as the brain is elevated, ~~or depressed~~  
~~or depressed~~ <sup>or depressed</sup> ~~depress it below~~ the sleeping  
point. I shall divide these causes

or such as act by expending  
the excitability of the system, &  
by that means reduce excitement,  
and <sup>3<sup>rd</sup></sup> by such as act by gently  
and gradually elevating the system  
to the sleeping point. To the first  
class of causes belong

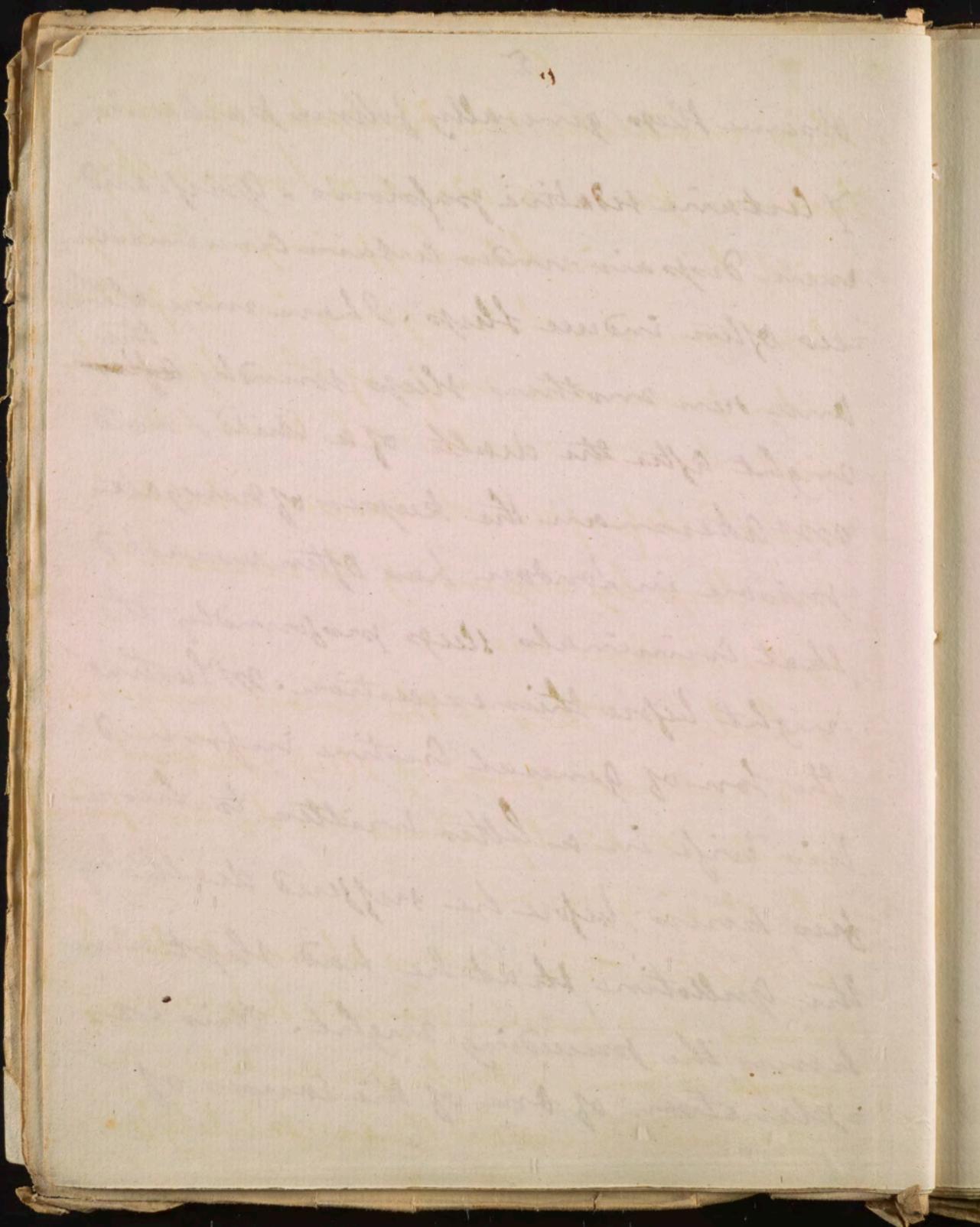
therefore into three classes. Such as  
set by the abstraction of stimulus &  
shutting thus <sup>reduces</sup> top ~~over~~ <sup>over</sup> excitement.

Causes

- 1 The abstraction of light, sound, and muscular motion.
- 2 Certain evacuations particularly blood letting and purging.
- 3 Certain substances applied to the body, such as oil, wine down, and the like.
- 4 Cold. The death which is induced by cold is always preceded by sleep.
- 5 The gratification of the venereal appetite - hence the saying "omne animal post coitum tristat": it might have been added - inclines likewise to sleep.
- 6 The cessation of pain - hence we



Observe sleep generally follows parturition.  
 Certain sedative passions - grief, and  
 even despair under certain circumstan-  
 ces often induce sleep. I have more than  
 once seen mothers sleep soundly <sup>the</sup> after  
 night after the death of a child, and  
 Mr Akerman the keeper of Newgate  
 prison in London has often remarked  
 that criminals sleep profoundly the  
 night before their execution. M'Justine  
 the son of General Justine informed  
 his wife in a letter written to her a  
 few hours before he suffered death by  
 the Guillotine, that he had slept nine  
 hours the preceding night. This ex-  
 planation of one of the causes of

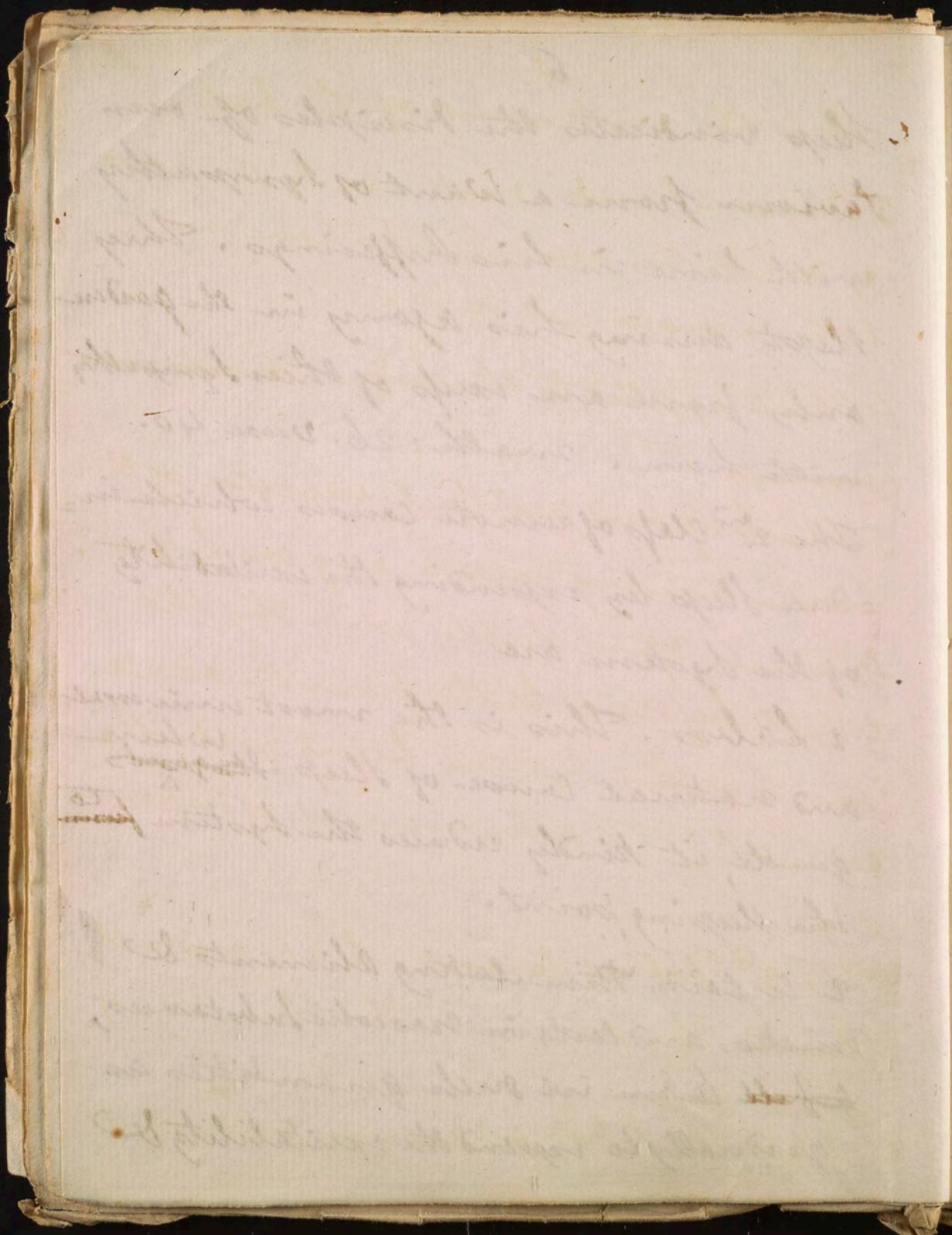


This vindicates the disciples of our Saviour from a want of sympathy with him in his sufferings. They slept during his agony in the garden only from an want of their sympathy with him. math: 26. viss 40.

The 2<sup>nd</sup> class of remote causes which induce sleep by expending the excitability of the system are

1 Labor. This is the most universal and natural cause of sleep. When gentle, it kindly reduces the system <sup>when</sup> to the sleeping point.

2 Certain stimulating Aliments & Drunks, and certain narcotic substances, ~~are~~ taken in such quantities as gradually to expend the excitability &



"  
7.

reduce the excitement of the system

3 Certain sounds, particularly the noise  
of a City in persons who have not  
been accustomed to it.

4 Heat applied to the body. ~~Hauts moe~~

~~process~~  
5 The long and painful exercise of the  
understanding upon any one subject.  
Generals often sleep soundly the  
night before a battle, from the exite-  
ment of their Systems being gradually  
reduced by the arrangements of the preceding  
day. —

The 3<sup>d</sup> class of causes which gradually  
excite the System to the sleeping

point are

1 Gentle labor or exercise particularly

x

with the ground surface, about midday, a  
few hours after the sun has risen, and is  
about 10° C. at noon and  
about 15° C. at midday. The  
wind blowing from the south  
is very strong, about 10 m.p.h.  
and the air is dry and  
the temperature is  
about 10° C. at noon and  
about 15° C. at midday.

walking, riding in a carriage, and  
rocking in a cradle.

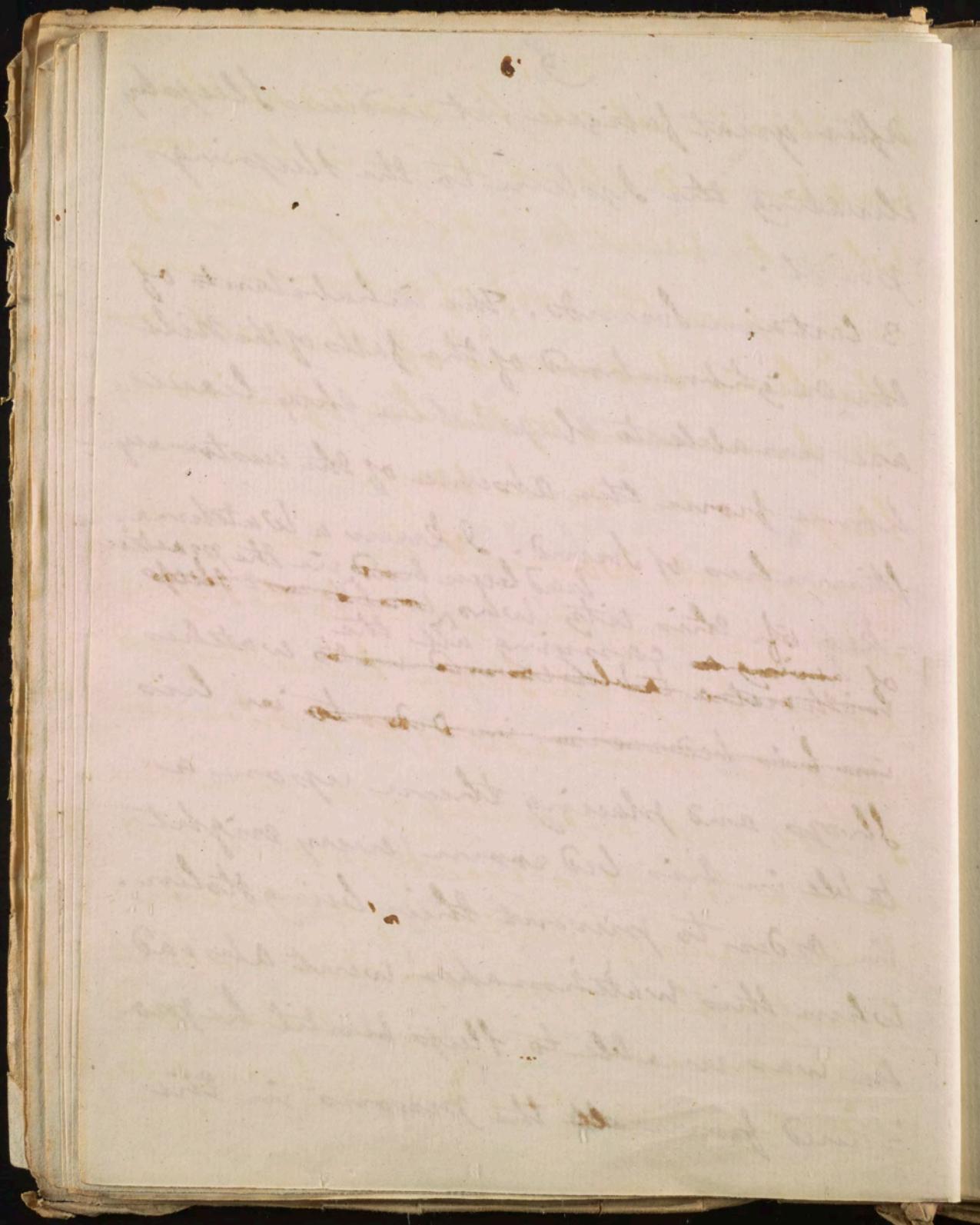
2 The moderate stimulants of Aliments  
and Drinks. hence we observe many  
people who are in the habit of eating a  
small ~~much~~ supper & a sleep up on  
restless nights, if they go to bed without  
taking a little food. Small doses of Opium  
& also fermented liquors - also tea, and  
coffee have the same soporific effects  
upon the system. Take notice here  
of the relative effects of tea. It ~~at~~ both  
provents, and induces sleep. When the  
system is nearly at the sleeping point,  
it elevates it above it, and thus provents  
sleep, but when it is 8 or 10 degrees  
~~abs~~ below it, which is the case

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after great fatigue, it induces sleep by  
inviting the system to the sleeping  
point.

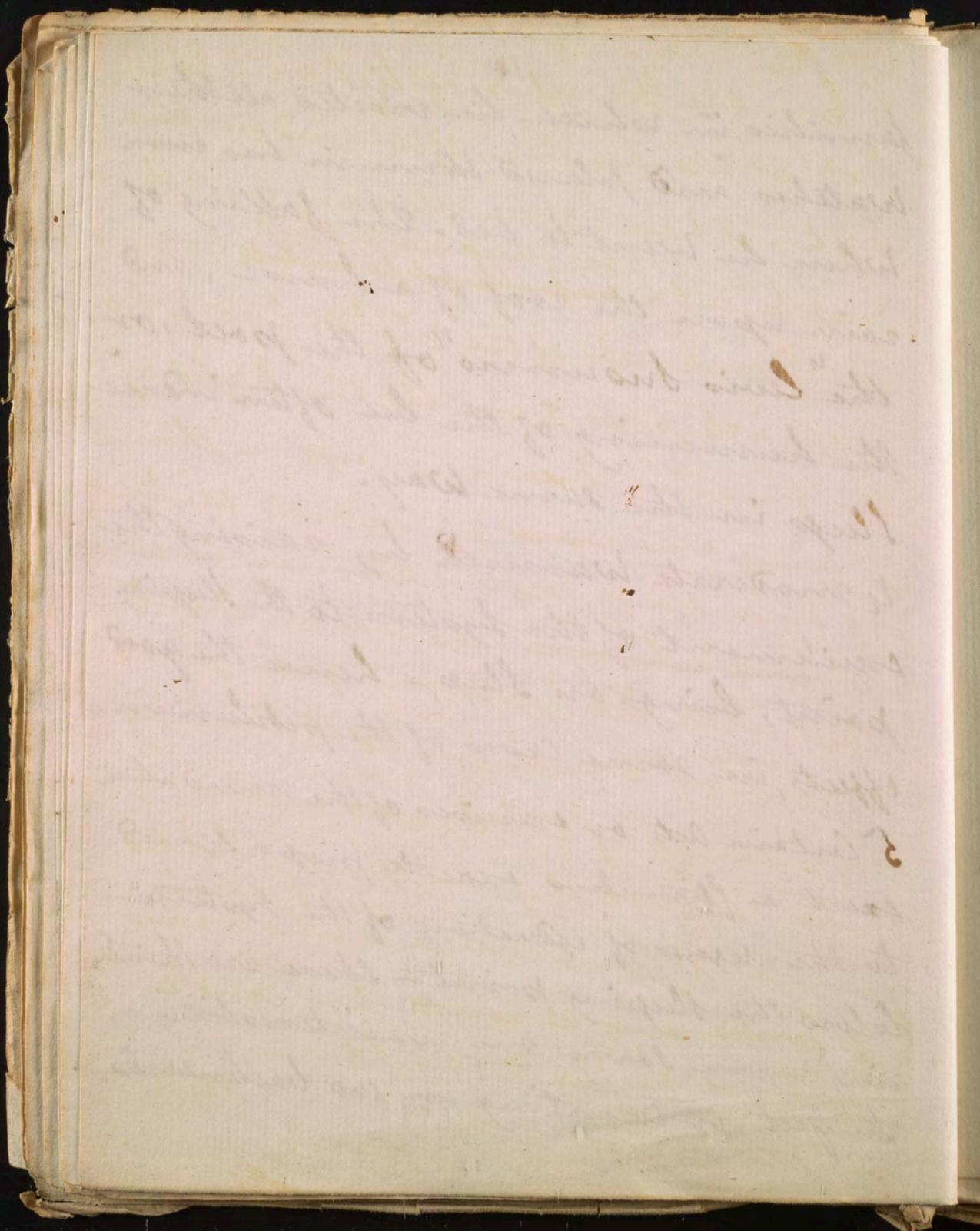
3 certain sounds. The inhabitants of  
the neighbourhood of the falls of the Nile  
are unable to sleep when they leave  
home from the absence of the customary  
stimulus of sound. I know a Watchma-  
ker of this city ~~had been~~ who <sup>had been</sup> in the practice  
~~of having a carriage all the~~  
~~with extra tables covered with watches~~  
~~in his bedroom in order to~~ in his  
shops, and placing them upon a  
table in his bed room every night  
in order to prevent their being stolen.  
When this watchmaker went abroad  
he was unable to sleep until he pro-  
-tected from ~~all~~ the persons in the



11

families in which he visited, all their  
watches and placed them in his room  
when he went to bed. The falling of  
rain upon the roof of a house, and  
the "avis sonus" of the post, or  
the humming of the bee often induce  
sleep in the same way.

4 moderate warmth by raising the  
excitement of the system to the sleeping  
point, brings on sleep, - hence the good  
effects, in some cases, of the pellucium.  
5 certain acts or exercises of the mind which  
exert a stimulus exactly proportioned  
to the degree of excitation of the system  
below the sleeping point, - these are think-  
ing upon some one uninteresting  
subject, or counting on two backwards.



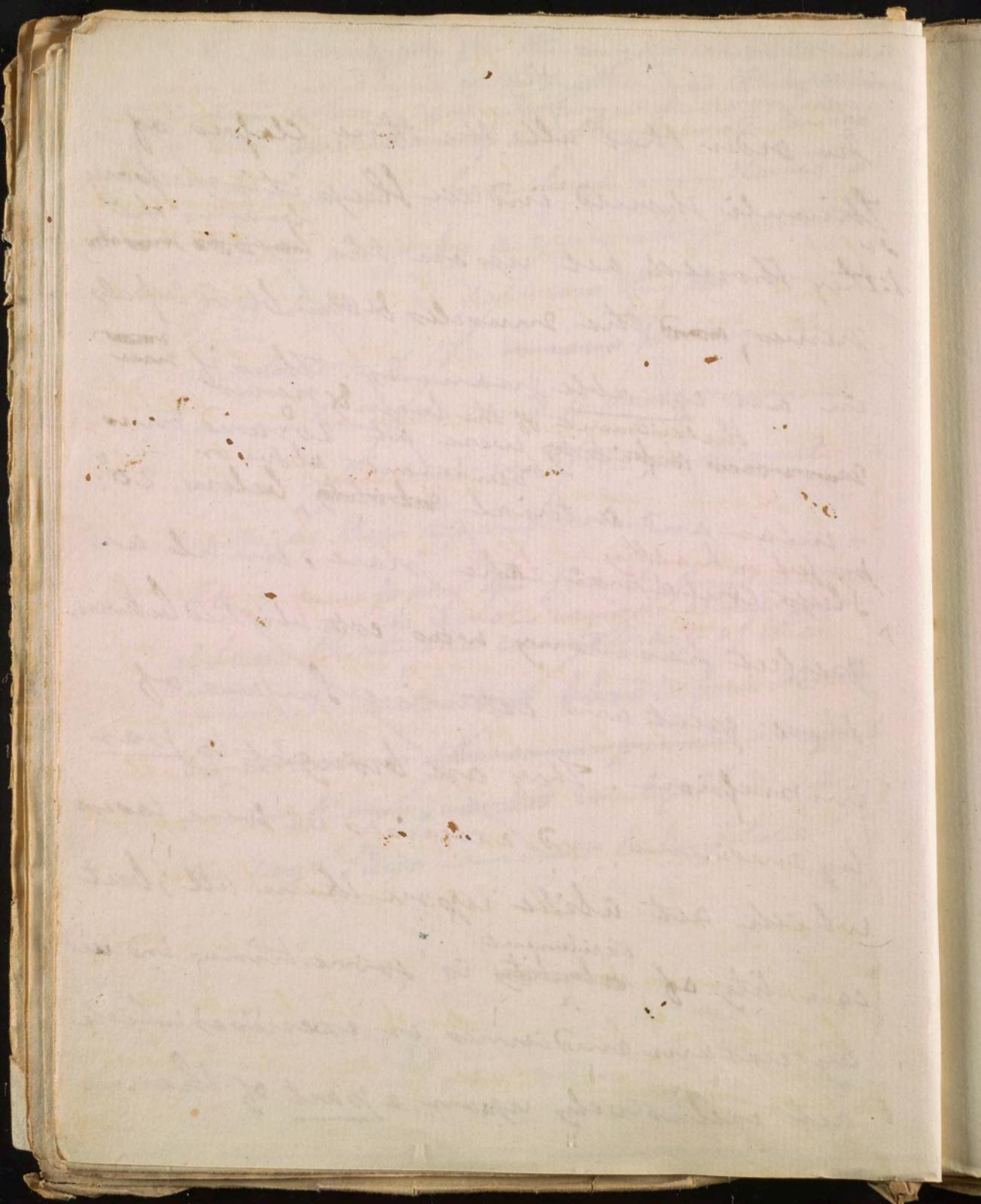
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6 even the dimmest of light in this  
state of the system often induces sleep.  
— This I have often observed in sick  
people who ~~are unable to sleep~~ during  
the darkness of the night, but who  
drop asleep as soon as the light of  
the morning breaks in upon them.  
I have once ~~seen~~ substituted the light  
of a candle to that of the sun in a  
patient ~~who was~~ who was unable to  
sleep, with the happiest effect. I was  
encouraged to recommend this remedy  
by hearing of a lady ~~who~~ in this city  
who cannot sleep without a lighted  
candle in her room and who wakes  
~~if~~ ~~she~~ ~~any~~ ~~and~~ <sup>sudden</sup> ~~out~~ <sup>in</sup> her candle  
~~goes~~ out during the night. —

V 2<sup>4</sup>. It is necessary for the remote cause to wear away the excitability of the system, and thereby to impose upon it ~~as~~<sup>a</sup> a state of ~~excitability~~<sup>inexcitability</sup>, that is to say, the operation of all the remote causes of sleep which have been mentioned is much aided by a reclining posture of the body. It favours the accumulation of the venous blood in the various sinusses and spinal marrow upon which I said the proximate cause of sleep depended. —

~~It is necessary for the production of sleep that the excitability of the nerves, muscles and blood vessels should be reduced to the same points in equal proportions, unless this be the case sleep cannot take place~~

In order that all the three classes of  
stimuli should induce sleep it is necessary  
that they should act upon the ~~body~~<sup>brain</sup>, the  
nerves, and the muscles & the blood vessels  
in an ~~equal~~<sup>convenient</sup> manner. Thus if ~~now~~  
~~excitement~~<sup>the excitement</sup> of the brain & nerves  
~~remained~~<sup>were</sup> at 20° and muscular  
and arterial ~~habitability~~<sup>excitement</sup> above or  
below 20°  
sleep could not take place, until a  
perfect harmony was established between  
those great and extensive surfaces of  
impression. They are brought to par  
by medicines and exercises in some cases  
which act alike upon them all; but  
consequently ~~habitability~~<sup>excitement</sup> is sometimes induced  
by certain medicines or exercises which  
act exclusively upon a part of them.

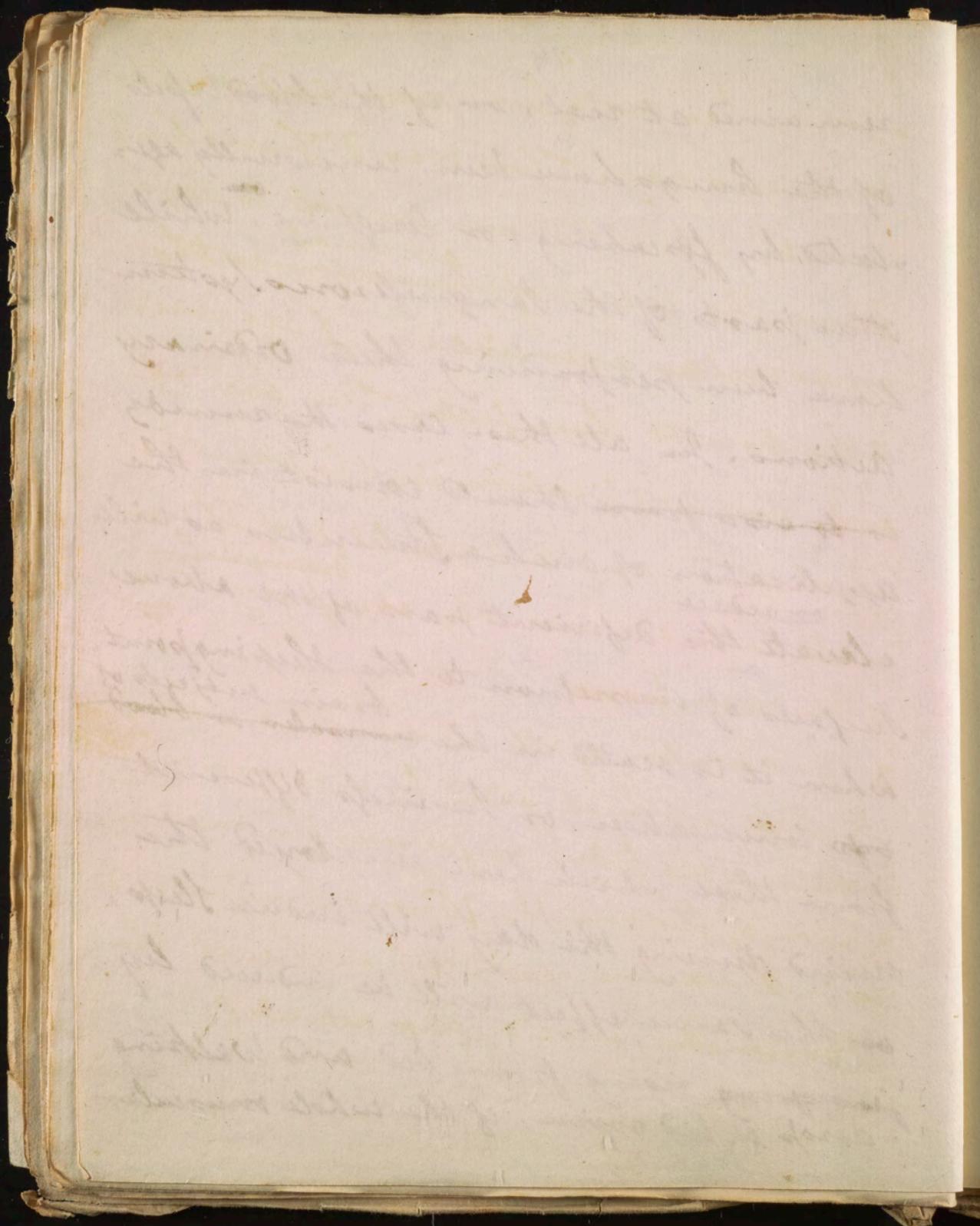


Thus Apafatida will induce sleep better than opium when the <sup>brain and</sup> nerves are below pan-wine, when the <sup>nerves excite-</sup>  
<sup>ment</sup> in the blood vessels, and exercise,  
when it is rated in the muscles.

Opium is most proper when all three of them require an elevating stimulus.  
2 In order that sleep may be induced by its remote canes, it is necessary that they should act equally upon each of the great surfaces of impressions that has been mentioned. Thus we shall in vain attempt to sleep if heat be applied to every part of the body except the feet, or if the ~~the~~ brain be exercised upon one subject, or if the muscles of the limbs be exercised, while those of the trunk have

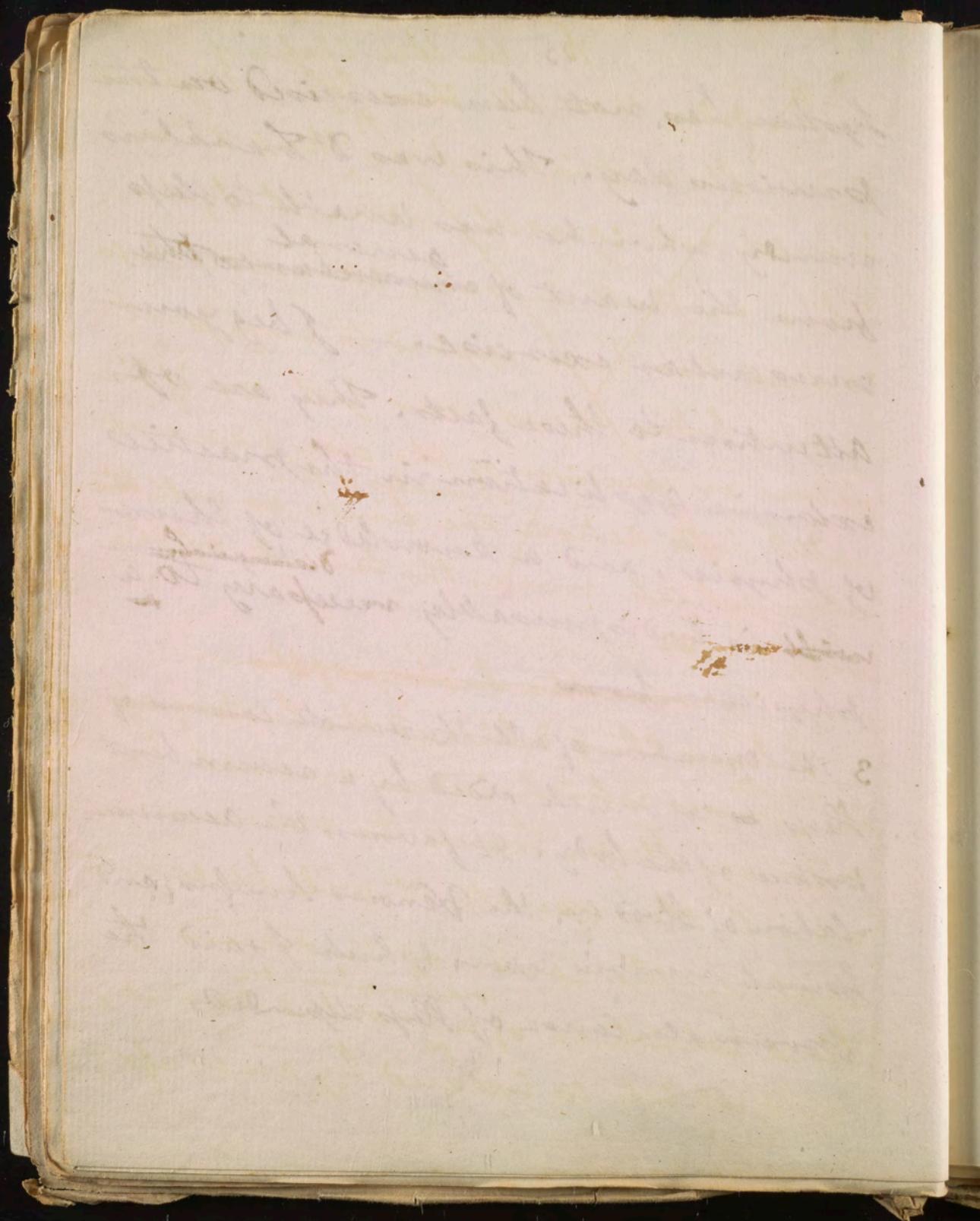


remained at rest, or if the blood vessels  
of the lungs have been unusually agi-  
tated by sneezing, or coughing, while  
other parts of the sanguiferous system  
have been performing their ordinary  
actions. In all these cases the remedy  
~~is to arise from~~ should consist in the  
application of such stimuli as will  
~~or reduce~~ elevate the different part of the above  
surfaces of impression to the sleeping point.  
When it is seated in the ~~muscles~~ brain, subjects of  
~~or~~ conversation, or business different  
from those which have employed the  
mind during the day will induce sleep,  
~~or~~ the same effect will be induced by  
jumping rising from bed and walking  
across a bed room, if the whole muscular



System has not been exercised on the previous day. This was Dr Franklin's misery when he was unable to sleep from the want of <sup>general</sup> ~~moderate~~ muscular exercise. — I beg your attention to these facts. They are of extensive application in the practice of physic, and a knowledge of them will be indispensably necessary <sup>disengaged</sup> to a physician.

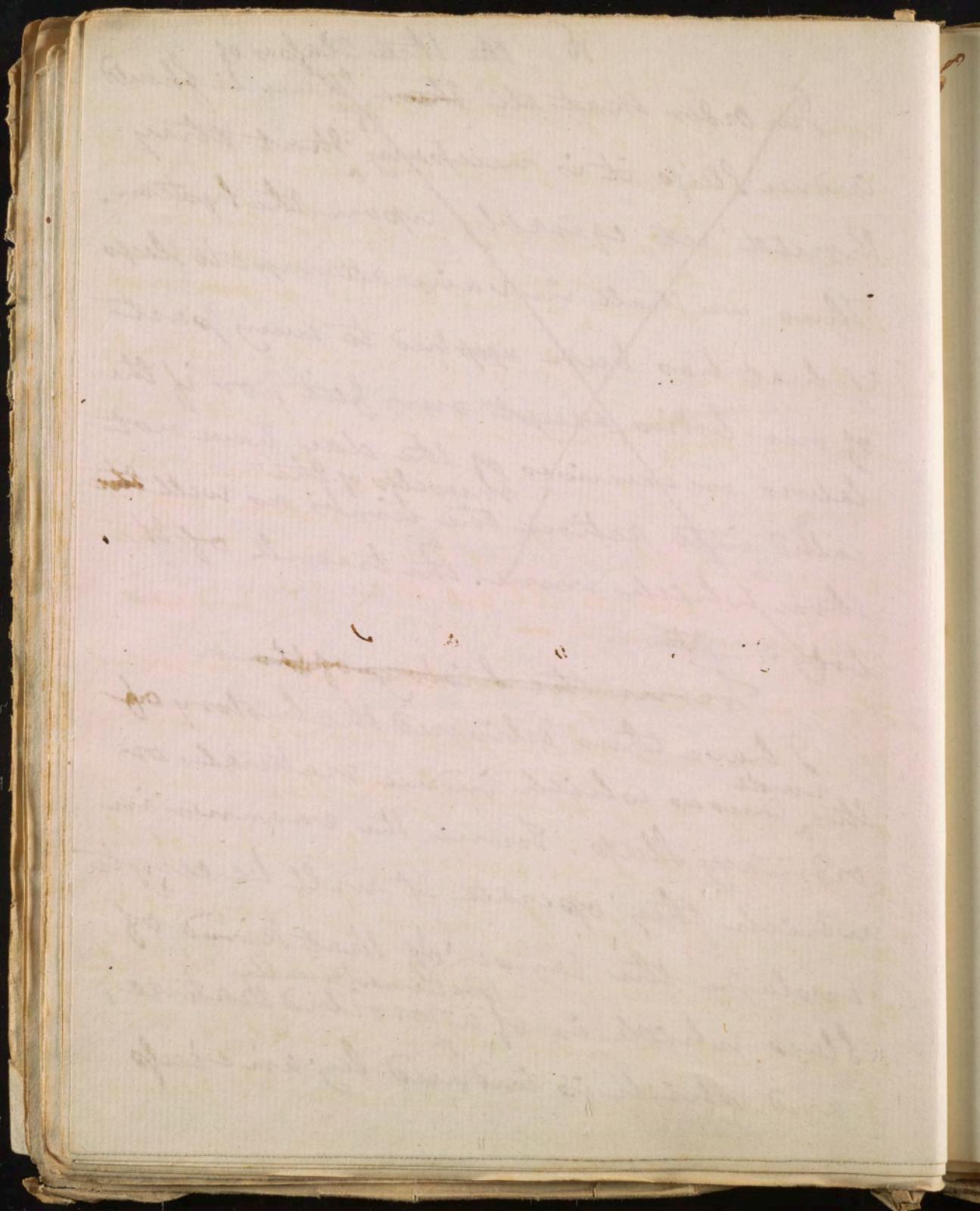
3 The operation of all the remote causes of Slips is much aided by a recumbent posture of the body. It favours the accumulation of blood in the venous sinusses, and spinal marrow upon which I said the proximate cause of slips depended.



16 the three classes of

In order that all ~~these~~ <sup>the</sup> stimuli should induce sleep it is necessary that they should act equally upon the system. Thus we shall vainly attempt to sleep if heat has been applied to every part of our bodies except our feet, or if the labors or exercises of the day have not called into action <sup>the</sup> muscles of the those which move the trunk of the body.

~~From another history of man~~  
I have thus delivered the history of the causes which induce natural, or ordinary sleep. From the manner in which they operate it will be easy to explain the cause of that kind of sleep which is of a <sup>pernicious</sup> naturally morbid nature, and which is induced by an excess



in the force <sup>or in the sudden application</sup> of those causes which  
 induce natural sleep, as also by con-  
 -tions, or compression of the brain.  
 Opium, Tobacco <sup>& Wine</sup>, Ardent Spirits, & Aliment  
 when taken in large quantities suddenly  
 induce ~~the~~<sup>an</sup> accumulation of blood in the  
 Venerous humors and in the Hirnal mar-  
 row, and thus bring on a morbid sleep.  
 Air or ~~Aire~~ note that <sup>is</sup> respired air induces  
 sleep in this way. An Almond discovered  
 that animals which sleep during the winter  
 are made to do so, not by the sedative action  
 of the cold, but the expiring thrushes of their  
 own breath, for he found by dragging one  
 of them out of his winter retreat, that he  
 constantly revived when exposed to the  
 air even though it was below the freezing

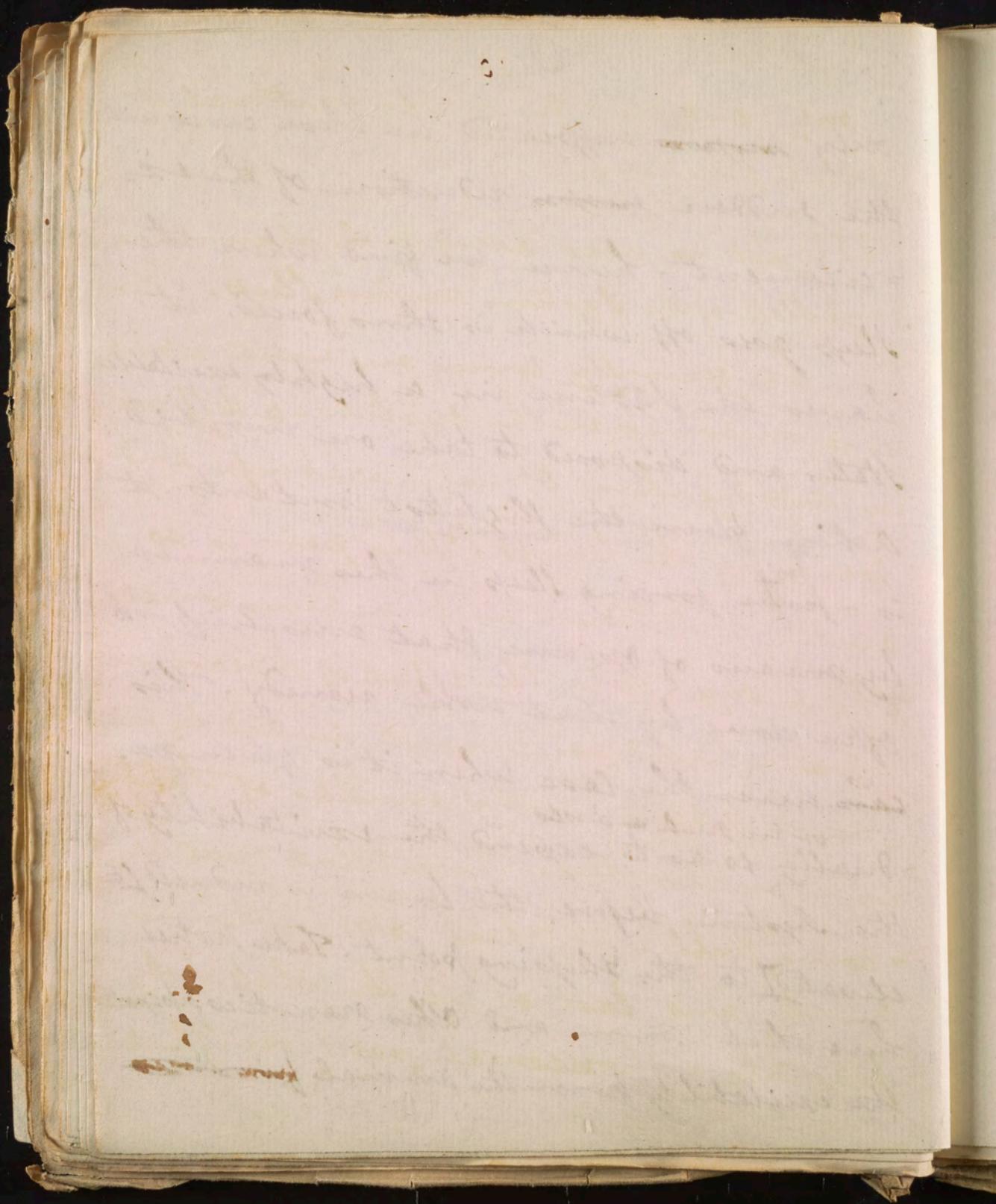
Divided several miles from the  
old road in 1877. Laramie was  
the first of the stations on the new  
route. A small town consisting  
of houses with their yards surrounded  
and a considerable number of ranches  
located at

point. The sleepiness which is often induced in crowded Assemblies is in part the effect of respiration air or what is called Arote acting by its stimulus upon the brain. A higher degree of this stimulus induces a sleep so profound as to terminate in death. The ~~poisonous~~<sup>Air</sup> invited by burning Charcoal produces the sleep & death only by its explosive stimulus. The sleep in all those cases is <sup>internally</sup> morbid, from its cause only, for the causes which induce it are exactly the same with those which bring on natural sleep. — It differs from natural sleep further in not being accompanied with an expenditure of the excitability of the system. The excitability is

11

and I will speak with him  
about it and see if he can give  
you a hand or not. I will get back  
to you as soon as I can.  
I am very sorry about the  
loss of your book. I will do my best  
to replace it. I will also send  
you a copy of the new  
book as soon as it is published.  
I hope you will like it.  
I will keep you posted on my  
progress and let you know  
when I have finished it.

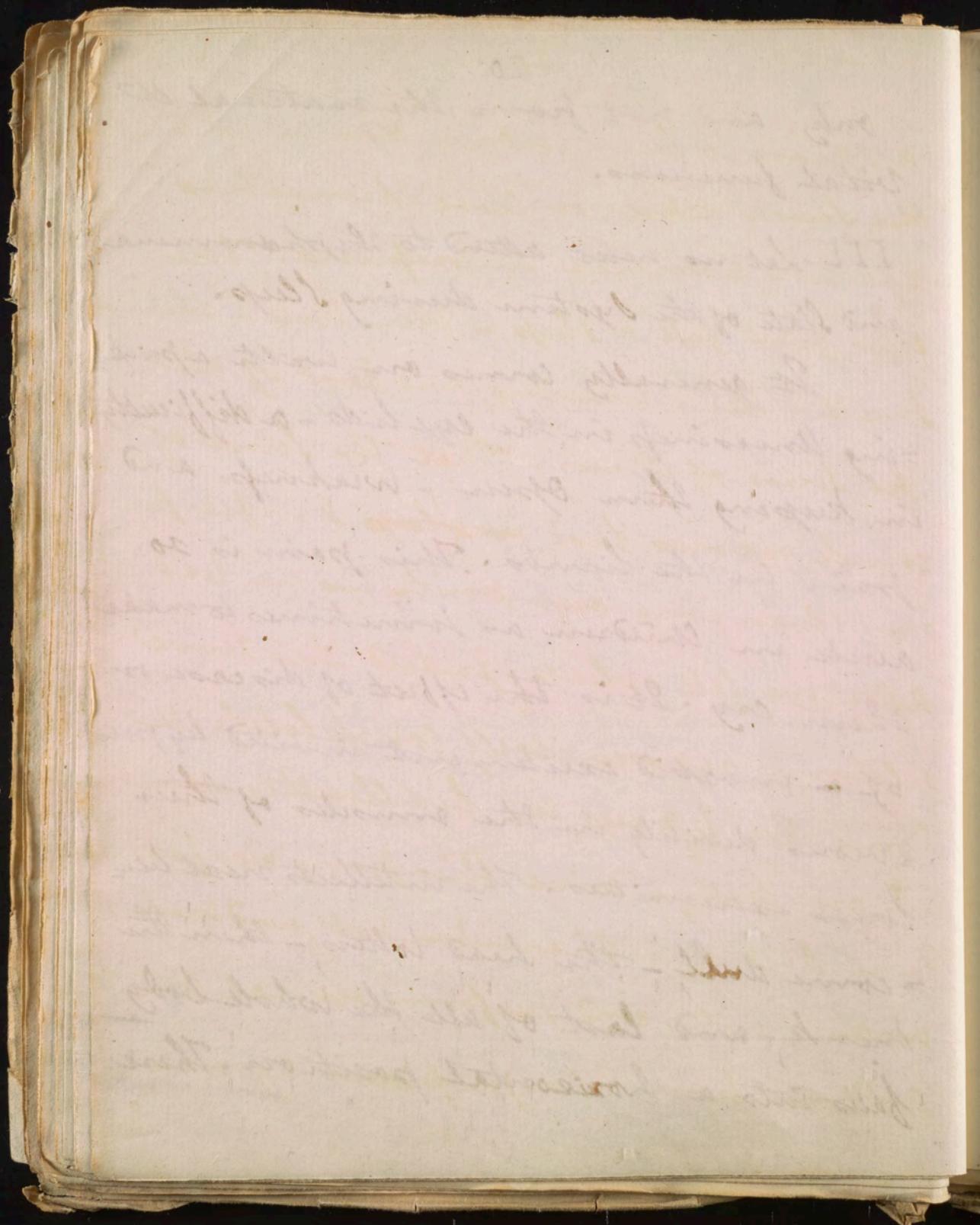
only ~~senses~~ suffocated in those cases with  
 the sudden ~~sudden~~ reduction of the ex-  
 citement; - hence we find when the  
 sleep goes off which is thus forced, it  
 leaves the system in a highly excitable  
 state, and disposed to take on morbid  
 action from the slightest irritants. It  
 is - ~~by~~ forcing sleep in this manner  
 by means of Opium, that mischief is so  
 often done by that noble remedy. This  
 is never the case when it is given pa-  
 -dicularly <sup>or in such doses</sup> so as to expend the excitability of  
 the system before the brain is reduced to  
 elevated to the sleeping point. Take notice  
 here that Opium and other narcotics ~~ripitate~~  
 the excitability from the animal, ~~function~~



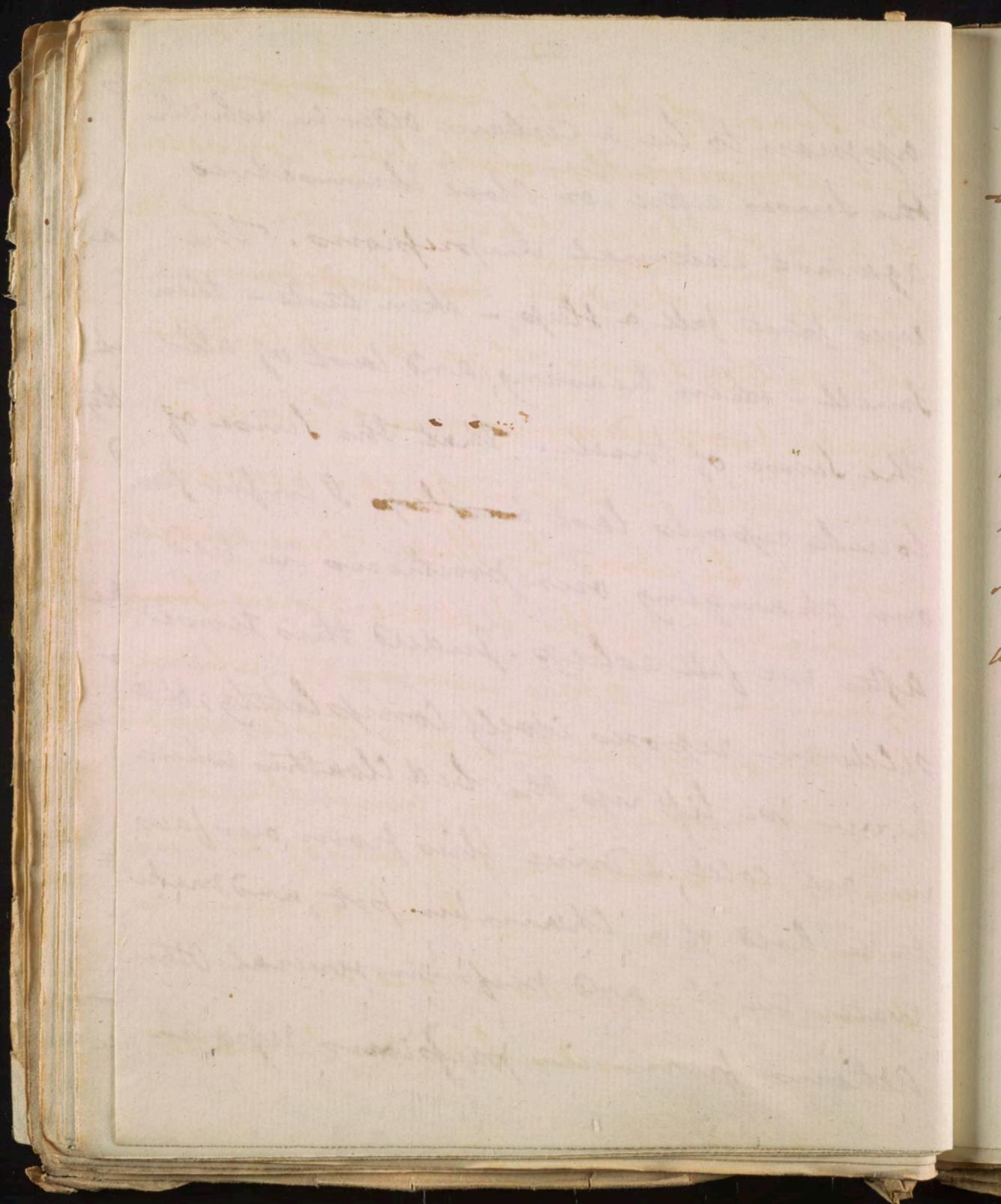
only, and not from the natural & vital functions.

[IT] Let us next attend to the phenomena and state of the system during Sleep.

It generally comes on with a prickling uneasiness in the eyelids - a difficulty in keeping them open - weakness, and pain in the limbs. This pain is so acute in children as sometimes to make them cry. It is the effect of disease or of a morbid excitement invited by previous debility in the muscles of their lower extremities. The intellects next become dull - the head totters - then the trunk, - and last of all the whole body falls into a horizontal position. There

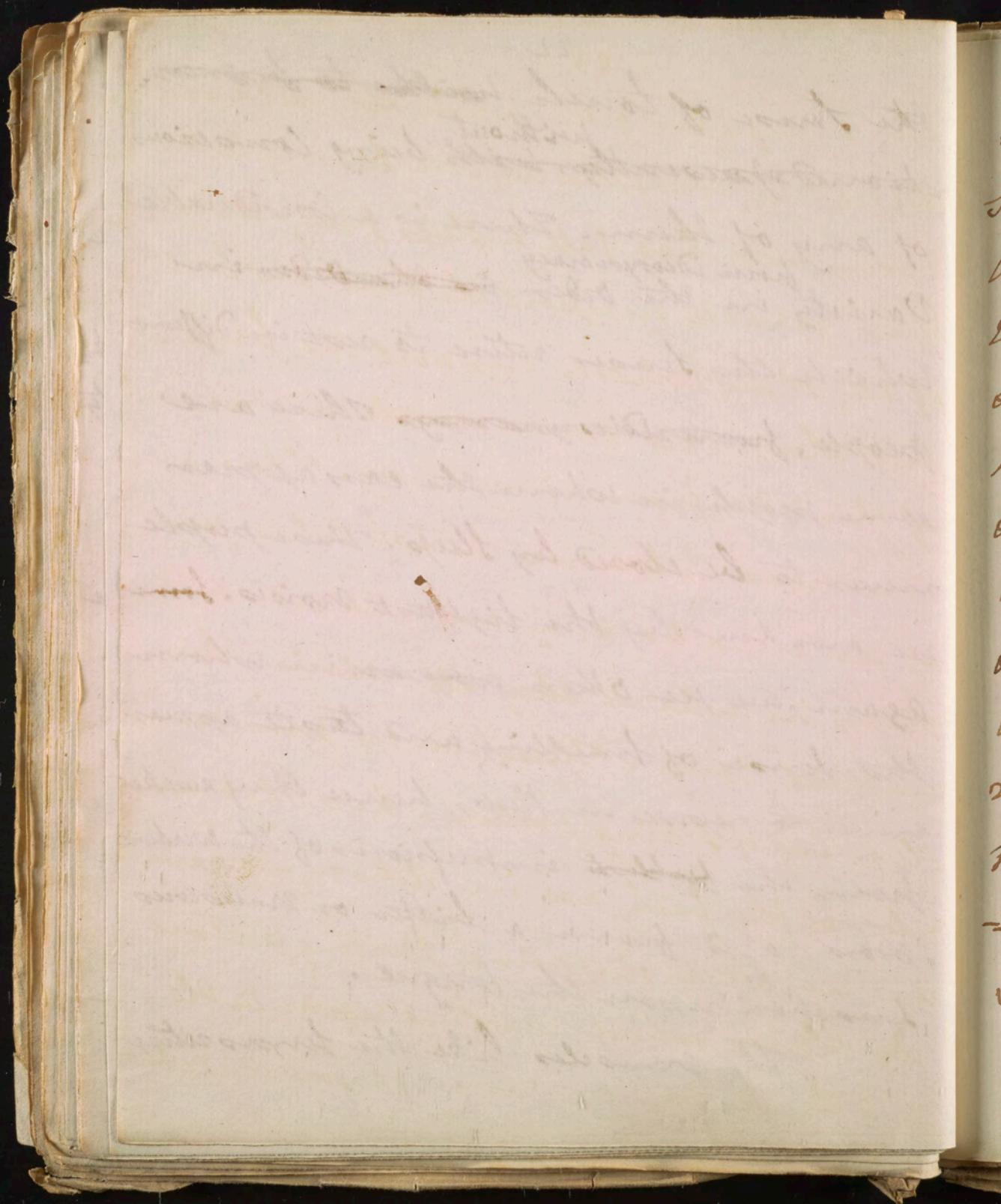


appears to be a certain order in which  
the senses retire, or close themselves  
against external impressions. The  
eyes first fall a sleep, - then taste - then  
smell, - then hearing, and last of all  
the sense of touch. That the sense of  
touch reposes last, ~~is sleep~~ I infer from  
our changing our positions in bed  
after we fall asleep. Indeed this sense  
rarely reposes itself completely; &  
hence we lift up the bed cloths when  
we are cold, - drive flies from our faces,  
take hold of a chamber pot, and make  
water in it, and perform several other  
actions from impressions upon

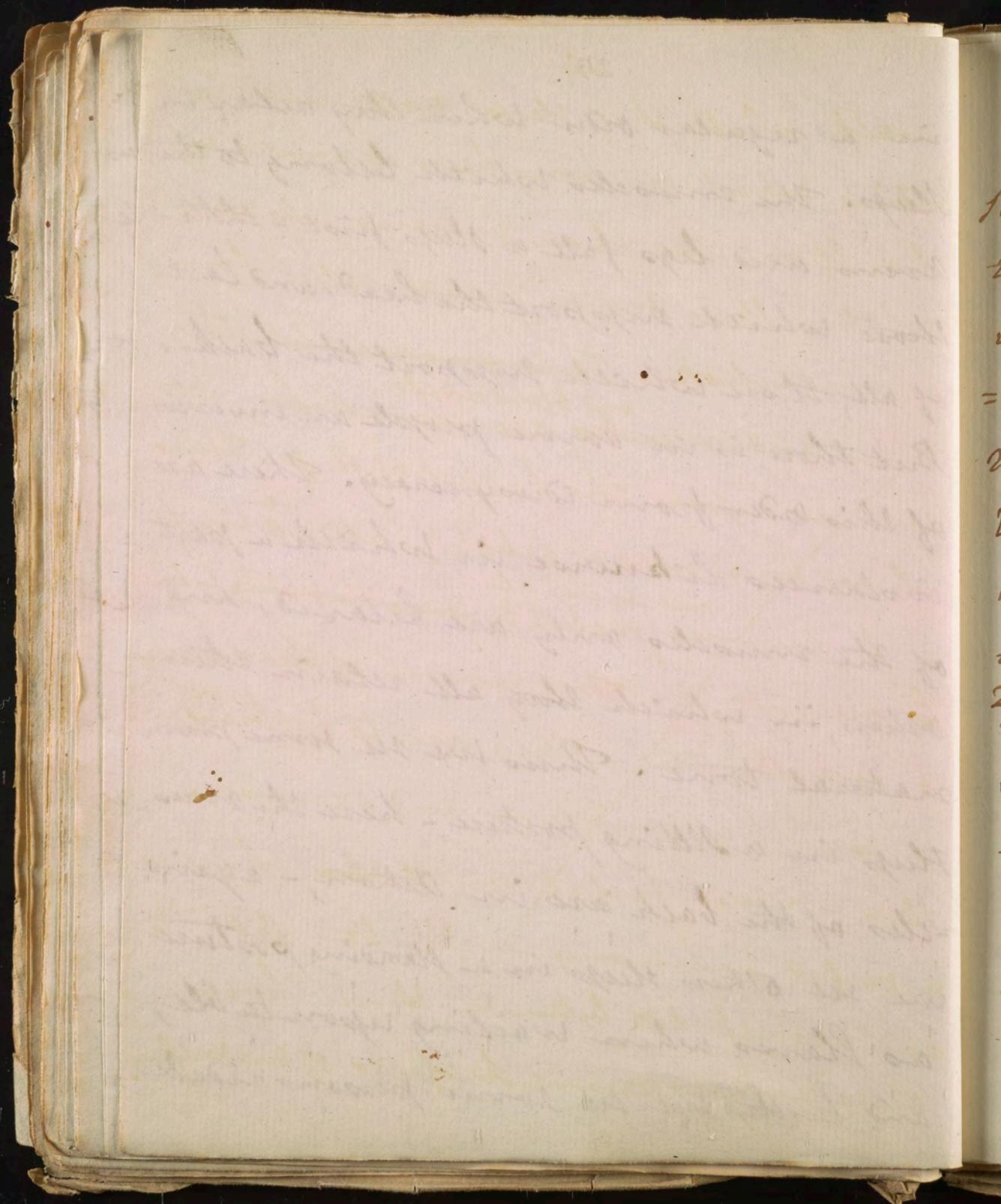


the sense of touch ~~with~~ to ~~sight~~  
~~sound~~ ~~smell~~ <sup>without</sup> ~~and~~ ~~and~~ ~~and~~ being conscious  
 of any of them. There is a considerable  
 Variety <sup>from idiosyncrasy</sup> in the order ~~in the order in~~  
 which the senses retire to rest in different  
 people. ~~from idiosyncrasy~~ There are  
 some people in whom the eyes appear  
 never to be closed by sleep. These people  
 are awakened by the lightest noises. Some  
 again, we see others ~~who~~ in whom  
 the sense of smelling and taste appear  
 never to repose in sleep, hence they awake  
 from the ~~feebler~~ impressions of the weakest  
 odors, and from a bitter or nauseous  
 sensation upon the tongue.

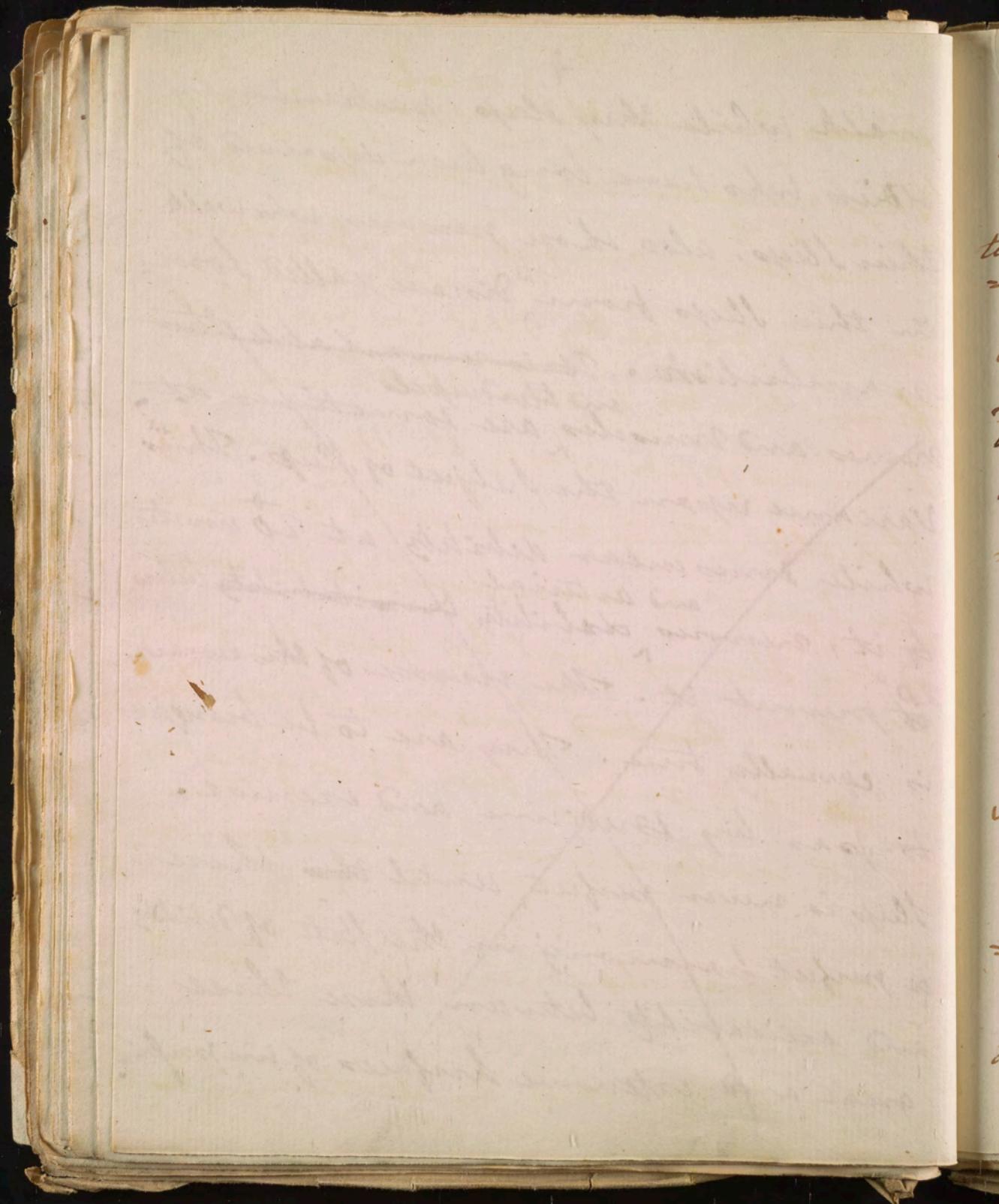
The muscles like the sensative



in a regular order when they relax in sleep. The muscles which belong to the arms and legs fall a sleep first, - then those which support the head, and last of all, those which support the back. But there is in some people an inversion of this order from idiosyncrasy. There are instances likewise in which a part of the muscles only are relaxed, and others, in which they all retain their natural tone. Thus we see some persons sleep in a sitting posture, - here the muscles of the back are in action, - again we see others sleep in a standing posture as slaves when waiting upon table, and lastly we see some persons ride



walk while they sleep, particularly  
 soldiers who have long been deprived of  
 their sleep, also those persons who walk  
 in their sleep from <sup>the</sup> disease called som-  
 nomambulists. ~~This is unavoidable after~~  
~~noises and motions~~ <sup>and blood vessels</sup> are sometimes at  
 variance upon the subject of sleep. Thus  
 while muscular debility at 20 invites  
 to it, nervous <sup>and arterial</sup> debility ~~and excitability~~ below  
~~20° prevent it.~~ <sup>20°</sup> the reverse of this remark  
 is equally true. They are to be brought  
 to pass by medicine and exercise.  
 Sleep is never perfect until ~~this~~ there is  
 a perfect harmony in the state of debility  
 and excitability between those three  
 great and extensive surfaces of insorpion.



Having ~~so far~~ described the gradual manner in which it remains that Sleep usually comes on, <sup>"</sup> take notice that sometimes comes on suddenly. In this case we generally start in our sleep, from the too sudden abstraction of stimulus, particularly the stimulus of thought. It is most apt to occur when the system is worn down to the verge of the sleeping point by great fatigue. It shows ~~that~~ how much the body is related to many other kinds of matter in its constant tendency to an equilibrium. —

The usual phenomena which attend Sleep are

1. The loss of motion in all the muscles

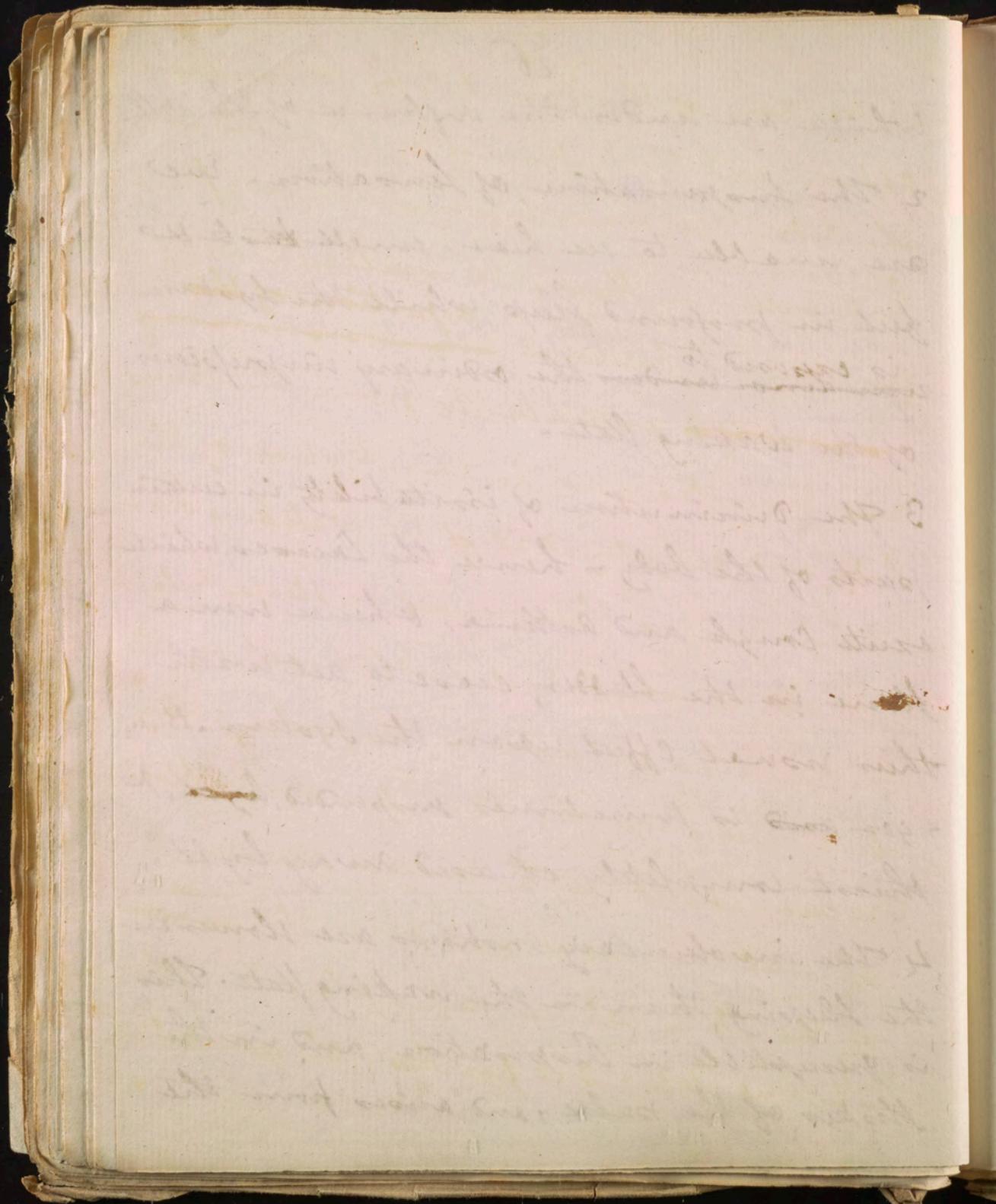
the first time I have seen  
such a bird. It was about  
the size of a sparrow hawk  
but with a long tail. Its  
feathers were black and  
white. It had a long beak  
and a sharp talon. It was  
very fierce and would  
not let me get near it.  
It was very noisy and  
would cry out whenever  
it saw me. It was  
very strong and could  
fly very fast. It was  
very clever and could  
find its way around  
the forest easily. It  
was very brave and  
would not back down  
from any challenge.

which are under the influence of the Will.

2 The Suspension of sensation. We  
are unable to see hear, smell & taste &  
feel in profound sleep while the system  
~~is exposed to~~  
~~no longer under~~ the ordinary impressions  
of the Waking State.

3 The diminution of irritability in certain  
parts of the body - hence the causes which  
excite Cough and Asthma, & hence when a  
stone in the bladder, cease to act with  
their usual effect upon the system. Hunger  
- ger and is sometimes suspended, ~~by it~~, &  
thirst completely chased away by it.

4 The involuntary motions are slower in  
the sleeping, than in the waking state. This  
is perceptible in Respiration, and in the  
strokes of the pulse, and arises from the



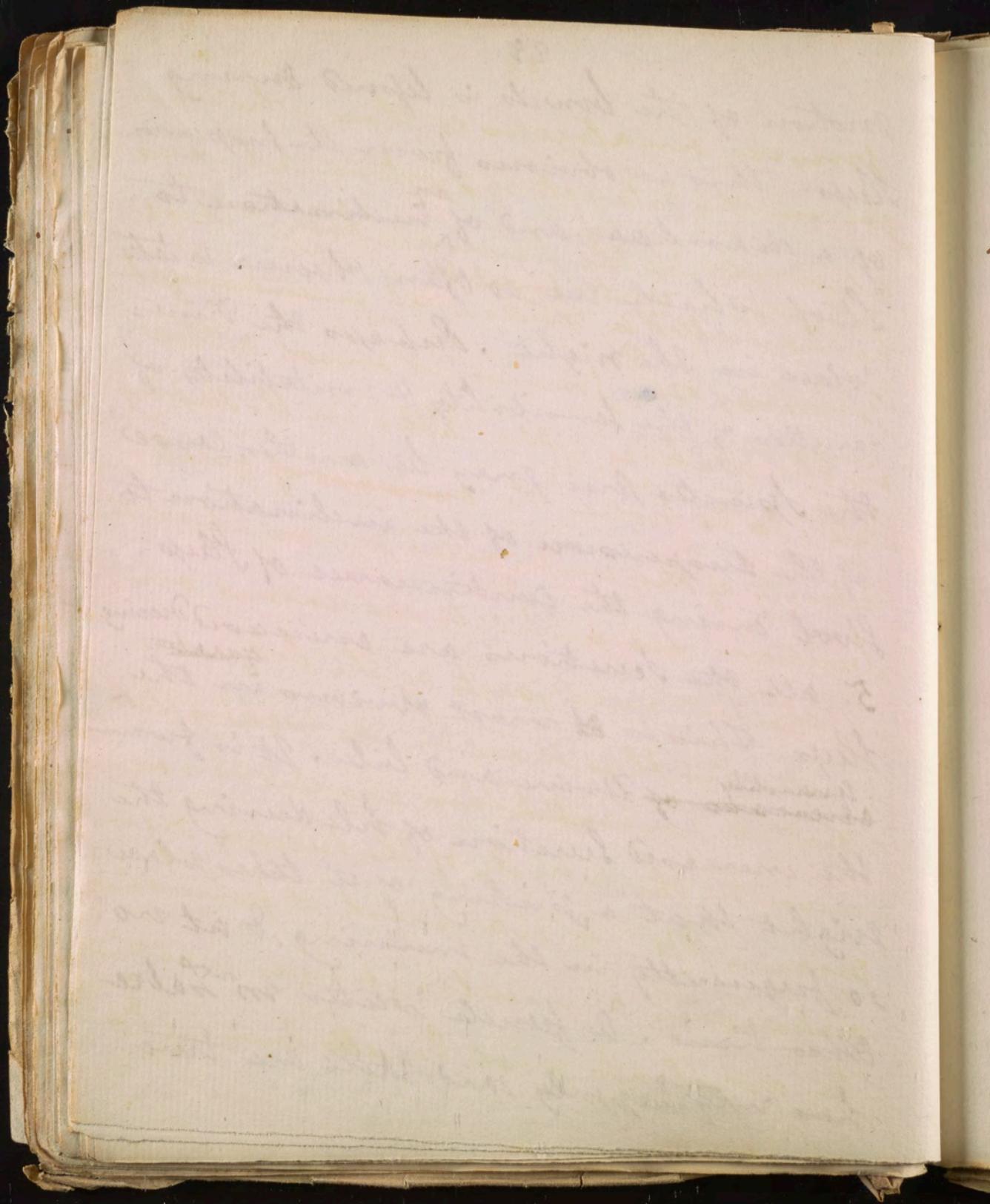
abstraction of the stimulus of muscular action, and the influence of the mind upon the body. The pulse becomes not only slower, but fuller in sleep. It would seem as if the arteries borrowed ~~a portion of the~~ <sup>a portion of the</sup> ~~superior~~ excitability from the nerves, ~~and~~ muscles and the other systems of the body, and employed it in watching over them during their repose in sleep. Perhaps the additional fulness and strength of the arteries manifested in the pulse, may be derived from the stimulus of the blood accumulated in the venous sinuses, & spinal marrow, and from the relaxation of the skin which takes place in the sleeping state. But further, the peristaltic



28

motion of the bowels is suspended during  
Sleeps. This is obvious from the suspension  
of a diarrhoea, and of <sup>an</sup> inclination to  
Stool which we so often observe to take  
place in the night. Perhaps the dimin-  
ution of the sensibility & irritability of  
the Spincter Ani may be another cause  
of the suspension of the inclination to  
Stool during the continuance of Sleep.

5. all the secretions are increased during  
Sleeps. This is ~~as~~ most obvious in the  
<sup>quantity</sup> ~~secretion~~ of Urine and bile. It is from  
the increased secretion of bile during the  
night that a purging of it takes place  
so frequently in the morning, & at no  
other time. A french writer m<sup>r</sup> Labre  
has very happily said there are two



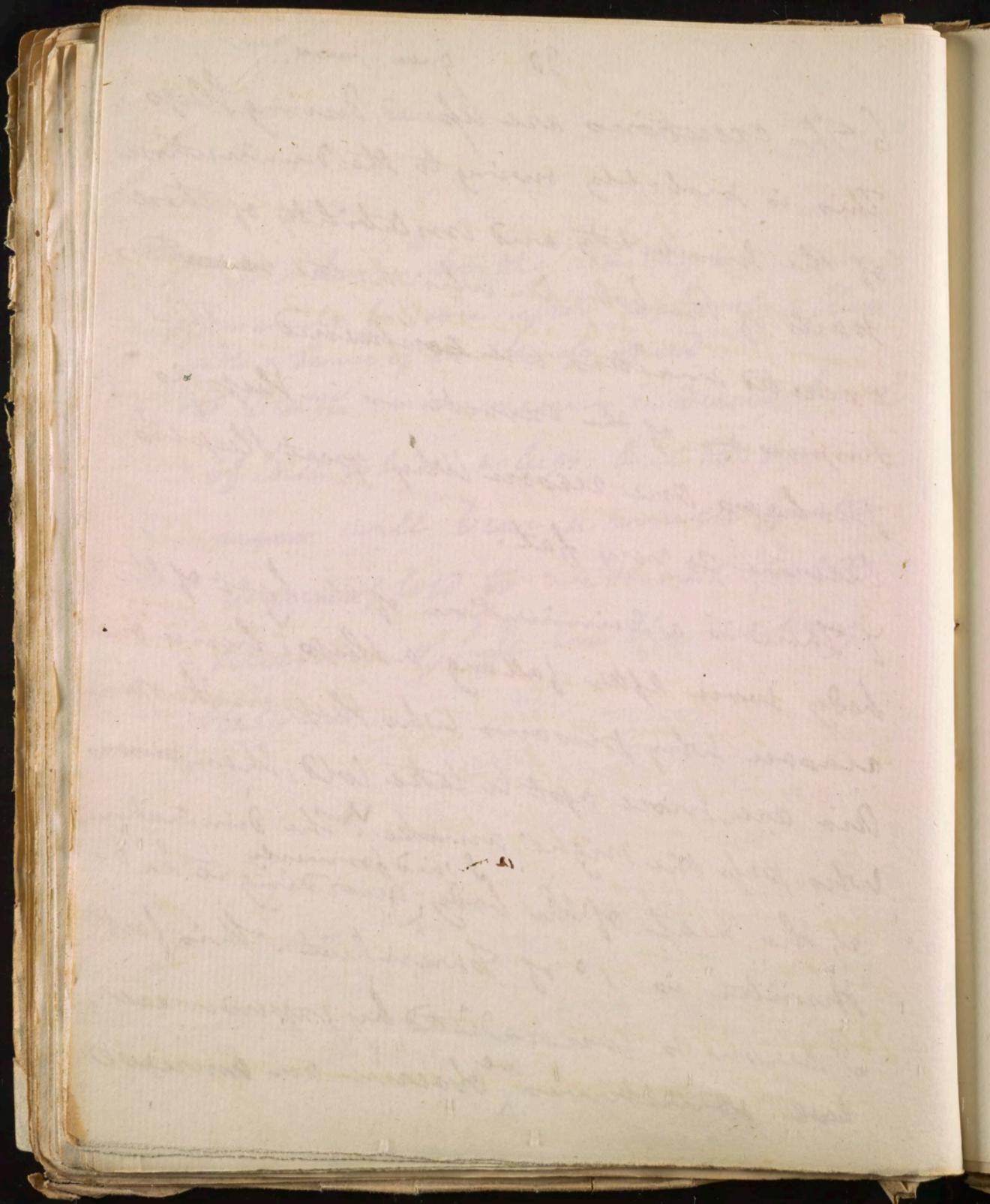
powers analogous to those which  
 govern the planetary system always  
 at work in the human body. These  
 he has called <sup>a centrifugal &</sup>  
<sup>b centripetal & centripugal</sup>  
 powers. The former is most active  
 in the waking, - the latter in the sleeping  
 state. It is from the <sup>c</sup> want of greater  
 activity of the centripetal power that the  
 secretions <sup>d</sup> which are carried on  
 in the internal parts of the body, are  
 greater in this than in the waking state.  
 Birkat has called this ascribed this in-  
 crease in the activity of the secretory organs  
 "Organic life" to distinguish it from the  
 voluntary muscular actions which  
 he ascribes to what he calls "Animal life."

V and hence too the reason why we so  
often wake far soon after we drop asleep  
with a sense of chilliness and

N & Death is moreover induced by exposure  
of cold when asleep, but the system  
~~won't~~ will bear a much greater  
degree of cold to without the extin-  
ction of life in the waking  
state. -

6 The excretions are lessened during Sleep.  
This is probably owing to the diminution  
of the sensibility and irritability of those  
parts of the body in which the ~~secreted~~  
excreted matters are contained. The  
suspension of the excretions in Sleep is  
perhaps one reason why great Sleepers  
become so very fat.

7 There is a diminution of the heat of the  
body soon after falling asleep; hence one  
reason why persons who sleep in the open  
air are more apt to take cold, than persons  
who pass the night awake. The diminution  
of the heat of the body <sup>and formerly</sup> according to Dr  
Hunter is  $1^{\circ}$  of Fahrenheit. This fact  
I know is contradicted by experience.  
Last sometimes <sup>we</sup> observe an increase



of heat during sleep. This may arise from two causes, - its confinement under the bed cloathes, & its reaction upon the body, or from a slight degree of <sup>the</sup> ~~fever~~ fever which attends sleep and ~~fever~~ which not only increases heat but destroys its equilibrium & throws a greater quantity of it to those parts to which the thermometer is applied in

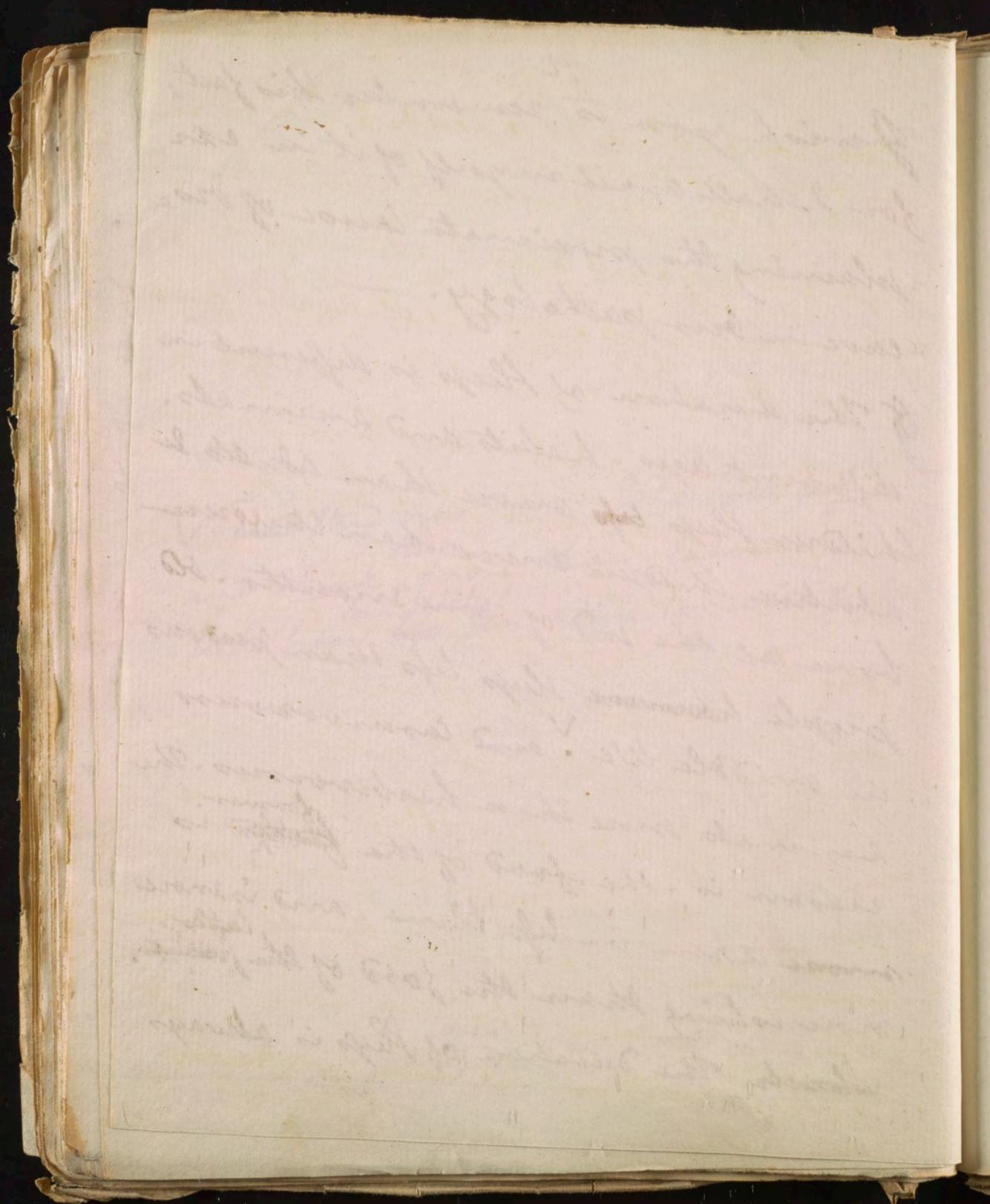
Determining this question <sup>This fever</sup>  
often goes off in the night or in the morning with a <sup>gentle perspiration.</sup>  
The system is weaker in sleep than in the waking state, hence fevers, &c., - Epilepsy and many other diseases often make their first attack in the night. It has been found in India that soldiers and war horses that are marched at night are more subject to affect the

V ~~and~~ studious men who both feel  
and think <sup>slip</sup> more than labourers  
who have <sup>but little</sup> sensation to recruit,

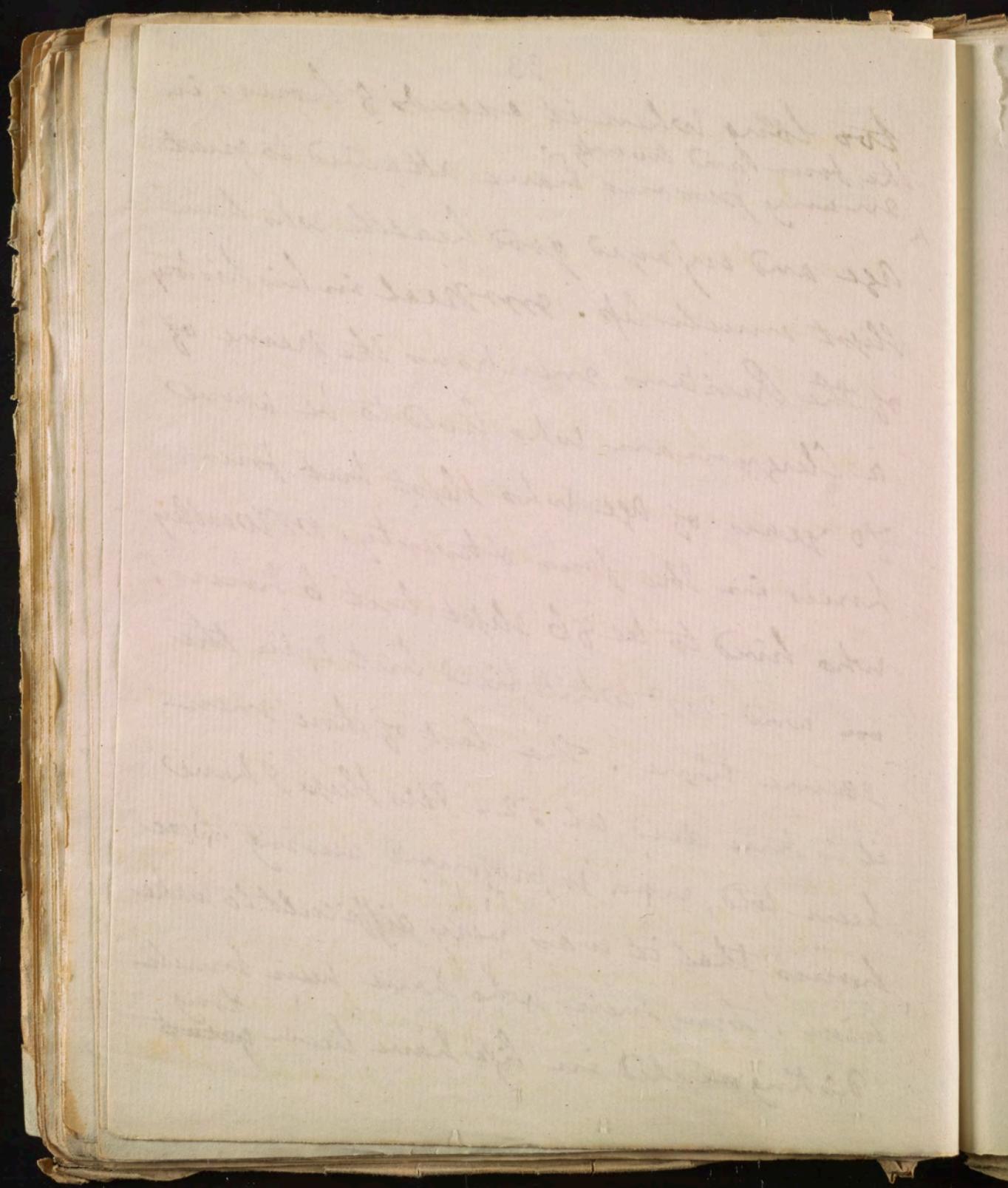
32

I wish you to remember this fact,  
for I shall avail myself of it in ex-  
plaining the proximate cause of dis-  
ease in our pathology. —

The duration of flux is different in  
different ages, - habits and animals.  
Children flux ~~up~~ more than adults, &  
abortive children more than children  
born at the end of nine months. Old  
people ~~likewise~~ flux less than persons  
in middle life. And carnivorous  
animals more than herbivorous. The  
reason is, - the food of the ~~former~~ <sup>latter</sup> is  
more taken in less time, and is more  
nourishing than the food of the <sup>latter</sup> ~~former~~,  
whence the duration of flux is always



too long when it exceeds 8 hours in  
the four and twenty.  
many persons lives attained to great  
age and enjoyed good health who have  
slept much less. mural in his history  
of the Puritans mentions the name of  
a Clergyman who lived to be above  
70 years of age who slept but four  
hours in the four & twenty. Mr. Westley  
who lived to be 86 slept but 6 hours,  
in and Mrs. Whitefield but 4 in the  
same time. the last of those men  
it is true died at 52. His sleep I have  
been told, was so profound during those  
hours, that it was very difficult to wake  
him. few men who have been much  
distinguished in life have been ~~great~~ long



Sleepers, and for an obvious reason.  
 They live a 5<sup>th</sup> or 6<sup>th</sup> part longer than  
 other people to perform exploits which  
 procure them prominence in society.  
 The times of sleeping & waking are  
 regulated by habit, or what might  
 more properly be called apportion of  
 visitations. From 6 to 7 to seven hours  
 Sleeps are said for any constitution.

where sleep is perfect ~~and~~ or profound,  
 there is no consciousness of the lapse of  
 time. I have read an account of a Mr  
 Foxley who lived in the reign of Henry  
 the 8<sup>th</sup> of England, who slept 14 days and  
 nights and awoke at the end of them as  
 if he had slept but a single night.

I have met with several old

and my love respects  
you all right & I will write  
you at length & with  
the names of well known  
men & girls & and so  
on, till the end of the year.  
I will be writing you  
as often as possible  
and always with pleasure  
and I hope you will  
receive my kind regards  
from all your friends  
and I hope you will  
have a good day.

to people who have told me they passed  
whole nights without sleeping who notwithstanding enjoyed good health. The  
*Seneca says*  
*meconas passed three years without sleep.*  
*late Bishop of Bangor told Sir John*  
*Pingle that he had not slept an hour*  
*for ten years.* ~~and the Heathian does~~  
*These persons sincerely*  
*believe what they say, but I am*  
*satisfied they deceive themselves. That*  
*this is the case I am certain, for a*  
*young lady who had often heard her*  
*mother complain of passing whole*  
*nights without closing her eyes, informed me that she had once watched*  
*her mother during one of those supposed*  
*sleepless nights, and that she appeared*  
*to sleep as soundly as ever she*

Persons who pass sleepless nights  
generally feel torpid or stupid the  
next day. This torpor or stupor  
or both, are kindly ~~soo~~ induced in  
order to give time for a new recruit  
of existability for the purposes of  
action, inspiration & thought: — V.

go to write sheet

36

had seen any body in her life. Dr  
Hastings in like manner says that  
he has seen slips in patients in the  
nervous fever who denied afterwards  
that they forgot themselves. The  
slip in all those cases ~~in~~ goes off  
in the same gradual manner in  
which it comes on, and hence ~~the~~  
~~consciousness~~ of the time in which  
it has taken place is not recollect'd.  
V we awake from slips more sudden  
than we fall asleep. The causes which  
arise us are the stimuli of the mor-  
ning light, and of the urine, of which  
has accumulated in the bladder during  
the night. Habit likewise independently  
of these stimuli disposes us to wake.

From the history of the pharyngeal  
of Slips which ~~has~~ been given, you  
will ~~anticipate~~ <sup>& in other words as Disease.</sup> perceive that it is  
a naturally morbid state of System. It  
is produced by debility & sometimes by a  
chilliness - it is attended with even that  
state of the brain which takes place in coma,  
or a low degree of apoplexy <sup>also with delirium, or what</sup>  
~~are called dreams.~~ - The excitement  
of the system is unequally diffused, &  
Inhabitability & sensibl<sup>y</sup> are impeded -  
The pulse becomes intermediately full &  
slow, and in some instances the tongue be-  
comes dry - and furred. This is often perceived in  
the morning.  
~~Be not surprised~~ Slips has been said to be tendency  
to death - and for a just reason - the whole  
body is a diseased state when it takes place. I  
have called the disease of Slips morbidly natural.  
Indeed there are several other of the  
natural or ordinary

functions of the body that are equally morbid  
with sleep as I shall <sup>say</sup> hereafter. Be not surprised  
at these apertures. Look around you, and  
see whether similar morbid phenomena do not  
take place <sup>in</sup> other parts of the material  
world. What are storms by sea & land, but  
~~the measure of~~ diseases in the atmosphere intended to  
and air vapor which support the millions  
of creatures that inhabit them? <sup>and yet</sup> What are  
these storms all unnatural. They belong  
to the ordinary tract of an atmosphere  
uniformly calm, <sup>is</sup> would be unnatural. ~~Then~~  
~~I shall~~ ~~reserv~~ But what was said formerly, that  
private place & hereafter, and shall I hope  
prove to you that we are kept alive by  
our diseases, as certainly (the in less degree)  
as we are by our Air and Aliment. These diseases  
are such as are violent, ~~what pleasure is to pain.~~  
~~They depend on the different~~  
~~Degrees or force of the and~~  
~~impetuous.~~



29.

at a certain hour. The mind  
first emerges from its repose; - the  
eyes are then opened, - the vision  
is restored, - ~~and last of all~~ we feel our  
relation to the objects which touch  
our bodies, and finally we recover the  
functions of the senses of smell & taste.  
We next rub our eyes - stretch our  
limbs, - yawn, - sneeze - or cough, and  
all this in order to diffuse the excite-  
ment and excitability in every part  
of the body in an equal manner.  
I confine this account of the manner  
of our waking ~~body~~ from sleep only  
when it has taken place in a recum-  
-bent posture of the body. We awake  
more suddenly from a nap upon  
a chair. The equilibrium of the

the same day I went to the  
latter and found it was  
a very poor place. It  
was situated on a hillside  
and the soil was very  
thin and stony. The  
people were poor and  
the houses were small  
and simple. The people  
were dressed in old  
clothes and looked  
very poor. The  
houses were made of  
wood and mud. The  
people were very  
poor and the  
houses were very  
small and simple.

the circulation as well as of excretion and excitability is thus more promptly restored, and the blood which stagnated in a large quantity in the venous sinuses and spinal marrow more readily finds its level in every part of the body.

It is for these reasons that we wake after sleeping in a chair without any sense of uneasiness, and ~~disposed~~<sup>disposed</sup> at once to study and business. In this way only the Roman emperor Augustus refreshed himself after the trials of the forenoon.

But in adopting this ~~pantie~~<sup>mode</sup> of sleep care should be taken to prevent the inclination of the neck or body, otherwise the brain will suffer much more than from sleeping in a recumbent

= bent

comes with a distinctness. One demands  
whether God will give victory. He answers  
simply, "He is glorified up in the sky."  
These were words of love & one response  
led to such was it had the result  
of new birth. Another out of it  
was born with a new gift of  
~~the~~ <sup>Good</sup> Spirit, but spurned it.  
The first, however, took up its  
home among us, and remained  
therefore, & lost all right to  
share ~~it~~ <sup>it</sup> with others. As such, he  
met at last the death of all, &  
lived on through the judgment of  
the world. His name is immortal.

posture.

The state of the body and mind immediately after waking deserves our attention.

From the abstraction of stimuli which impart life and strength to the body during the night it is much weaker than during the day, hence consumptive people cough most in the morning, and hence the slow and feeble steps with which labourers advance to their work by soon after they rise from their beds. Even the face discloses marks of a relaxation of muscular tone in the after sleep, hence ~~people~~ middle aged people look older, and transverse people ~~are~~ lips beautiful.

✓ It is from the greater debility of the  
body in the morning, that pain  
is more sensibly felt at that time  
than at any other. The Indians are  
so well acquainted with this fact  
that they generally attack their ene-  
mies at day light: This was the  
case on the 4<sup>th</sup> of November 1791 when  
they defeated General St Clair on St.  
mary's river, also on the 6<sup>th</sup> of Nov<sup>r</sup>  
1792 when they attacked major  
Adams near Fort St Clair, and lately  
when they attacked Gov' Harrison  
on the 7<sup>th</sup> of Nov<sup>r</sup> 1811.

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early in the morning than they <sup>do</sup> ~~would~~  
at any other time after the stimuli  
of the day have acted some hours upon  
them. It is remarkable that in that  
season in which the debility induced by  
sleep is most sensible, that is in the  
Spring and Summer, Heaven kindly  
provides the odor of flowers, and the  
music of birds to obviate it, and thus  
gradually to prepare us in the morning  
for the labors and duties of the day. This  
is history of the state of the body <sup>after sleep</sup>  
never be forgotten by a physician. The  
knowledge of it is of great application  
to the practice of physic.

: The faculties of the mind are very  
different in the morning from what they  
are in the subsequent parts of the day.

the same time  
and the first  
part of the  
second day  
was spent  
in the same  
manner  
as the first.  
The second  
part of the  
day was  
spent in  
the same  
manner  
as the first.

By the occupations of the day they are often jumbled together, so as to act with less regularity and order than they do immediately after a nights sleep. Each faculty now settles, as if by a law similar to that which determines the arrangement and order of solid bodies by their specific gravities. The understanding and all the rational faculties act now ~~at~~ with more strength and order, and hence the preference that is every where given to morning studies, and hence <sup>too</sup> the universal practice of consulting our pillow in all new & difficult enterprises. It should be our morning pillow only. The moral faculties now occupy the highest and most honourable



station in the mind, while all the vapors  
are precipitated to the bottom of it. how-  
ever are less disposed to fraud and wish-  
= doms soon after they awake from sleep  
in the morning than they are some  
hours after the moral faculties have  
kept company with the understanding  
and the vapors.

5

inches by 10 inches  
and  
about 1000 yards in  
length of sea weed  
at the most popular  
leisure hours of the day.  
The seaweed is  
gathered and dried

